

Mathematical Reviews



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- Learned societies** ★ Comptes rendus du 106e congrès national des sociétés savantes. (French) [Proceedings of the 106th national congress of learned societies] 86d:00016
- Logic, methodology and philosophy of science** ★ Philosophy of science. History of science. 86d:00015
- Mathematicians** ★ Proceedings of the international congress of mathematicians. Vol. 1, 2. 86g:00010
- Theoretical and applied mechanics** ★ Theoretical and applied mechanics. 86m:00013
- Contributions to general algebras** ★ Contributions to general algebra. 3. 86i:00014
- Current problems in mathematical physics and numerical mathematics** ★ Актуальные проблемы математической физики и вычислительной математики. (Russian) [Current problems in mathematical physics and numerical mathematics] 86e:00015
- Differential and integral equations** ★ Differential and integral equations. 86j:00011
- Differential equations** ★ Differential equations. 86f:00016
- Differential equations and their applications** ★ Differential equations and their applications. (Russian) 86i:00015
- Differential geometric methods in mathematical physics** ★ Differential geometric methods in mathematical physics. 86i:00016
- Dynamical problems in soliton systems** ★ Dynamical problems in soliton systems. 86i:00017
- Functional-differential systems and related topics** ★ Functional-differential systems and related topics. III. 86f:00017
- General inequalities** ★ General inequalities. 3. 86d:00013
- Granada** ★ Actas del VII congreso de ecuaciones diferenciales y aplicaciones. (Spanish) [Proceedings of the seventh congress on differential equations and applications] 86g:00009
- Haifa** ★ Proceedings of the twenty-sixth Israel annual conference on aviation and astronautics. 86g:00011
- Inverse problems of acoustic and elastic waves** ★ Inverse problems of acoustic and elastic waves. 86e:00016
- Iowa City, Iowa** ★ Differential and integral equations. 86j:00011
- Ithaca, N.Y.** ★ Inverse problems of acoustic and elastic waves. 86e:00016
- Karl-Marx-Stadt** ★ Probleme und Methoden der mathematischen Physik. (German) [Problems and methods of mathematical physics] 86b:00003
- Kirovabad** ★ Материалы конференции по прикладной математике и механике, посвященной 25-летию Института Математики и Механики АН Азербайджанской ССР. (Russian) [Abstracts of a conference on applied mathematics and mechanics, dedicated to the 25th anniversary of the Institute of Mathematics and Mechanics of the Academy of Sciences of the Azerbaijan SSR] (Not in MR)
- Kyoto** ★ Dynamical problems in soliton systems. 86i:00017
- Leningrad** ★ International conference on current problems in algebra and analysis (Moscow-Leningrad, September 24-27, 1984). (Russian) 86f:00015
- Los Alamos, N.M.** ★ Transport and propagation in nonlinear systems. 86e:00017
- Lyngby** ★ Theoretical and applied mechanics. 86m:00013
- Madison, Wis.** ★ Classical real analysis. 86f:00013
- Mathematical models in physics and chemistry and numerical methods of their realization** ★ Mathematical models in physics and chemistry and numerical methods of their realization. 86d:00014
- Meeting:**
- American Mathematical Society** ★ Classical real analysis. 86f:00013
- SAFA, recent methods in nonlinear analysis and applications** ★ Recent methods in nonlinear analysis and applications. (Italian) 86i:00019
- Methods and procedures for solving boundary value problems** ★ Методы и средства решения краевых задач. (Russian) [Methods and procedures for solving boundary value problems] 86i:00018
- Milan** ★ Proceedings of the international conference on partial differential equations dedicated to Luigi Amerio on his 70th birthday. 86f:00019
- Miniconference on nonlinear analysis** ★ Miniconference on nonlinear analysis. 86f:00018
- Montpellier** ★ Actes du 110^e congrès national des sociétés savantes. (French) [Proceedings of the 110th national congress of learned societies] 86m:00012
- Moscow** ★ Некоторые вопросы математики и механики. (Russian) [Some problems in mathematics and mechanics] (Not in MR)
- Naples** ★ Recent methods in nonlinear analysis and applications. (Italian) 86i:00019
- Northfield, Minn.** ★ Eighth symposium on real analysis. 86d:00017
- Oberwolfach** ★ General inequalities. 3. 86d:00013
- Ootacamund** ★ Proceedings of the conference on probability, stochastic processes and applications. 86g:00008
- Palaiseau** ★ Colloque en l'honneur de Laurent Schwartz. Vol. 1. [Colloquium in honor of Laurent Schwartz. Vol. 1] 86i:00012a
- Perpignan** ★ Comptes rendus du 106e congrès national des sociétés savantes. (French) [Proceedings of the 106th national congress of learned societies] 86d:00016
- Philosophy of science. History of science** ★ Philosophy of science. History of science. 86d:00015
- Probleme und Methoden der mathematischen Physik** ★ Probleme und Methoden der mathematischen Physik. (German) [Problems and methods of mathematical physics] 86b:00003
- Problems and methods of mathematical physics** ★ Probleme und Methoden der mathematischen Physik. (German) [Problems and methods of mathematical physics] 86b:00003
- Proceedings:**
- Conference of Portuguese and Spanish mathematicians** ★ Actas de las VI jornadas de matemáticas hispano-lusas. Parte I. (Spanish) [Proceedings of the sixth conference of Portuguese and Spanish mathematicians. Part I] 86h:00009a
- Conference on partial differential equations** ★ Proceedings of the international conference on partial differential equations dedicated to Luigi Amerio on his 70th birthday. 86f:00019
- Conference on probability, stochastic processes and applications** ★ Proceedings of the conference on probability, stochastic processes and applications. 86g:00008
- Congress of learned societies** ★ Actes du 110^e congrès national des sociétés savantes. (French) [Proceedings of the 110th national congress of learned societies] 86m:00012
- Congress on differential equations and applications** ★ Actas del VII congreso de ecuaciones diferenciales y aplicaciones. (Spanish) [Proceedings of the seventh congress on differential equations and applications] 86g:00009
- International congress of mathematicians** ★ Proceedings of the international congress of mathematicians. Vol. 1, 2. 86g:00010
- Israel annual conference on aviation and astronautics** ★ Proceedings of the twenty-sixth Israel annual conference on aviation and astronautics. 86g:00011
- National congress of learned societies** ★ Comptes rendus du 106e congrès national des sociétés savantes. (French) [Proceedings of the 106th national congress of learned societies] 86d:00016
- Spanish-Portuguese conference on mathematics** ★ Proceedings of the seventh Spanish-Portuguese conference on mathematics. Part I. (Spanish) 86g:00012a
- Winter school on abstract analysis** ★ Proceedings of the 12th winter school on abstract analysis. 86a:00004
- Queen Elisabeth 2** ★ Boundary elements. VI. 86f:00012
- Recent methods in nonlinear analysis and applications** ★ Recent methods in nonlinear analysis and applications. (Italian) 86i:00019

- Salamancas** ★ *Actas de las IX jornadas matemáticas hispano-lusas. 2.* (Spanish) [Proceedings of the ninth Spanish-Portuguese conference on mathematics. 2] 86j:00013
- Salsburg** ★ *Philosophy of science. History of science.* 86d:00015
- Sant Feliu de Guixols** ★ *Proceedings of the seventh Spanish-Portuguese conference on mathematics. Part I.* (Spanish) 86g:00012a
- Santander** ★ *Actas de las VI jornadas de matemáticas hispano-lusas. Parte I.* (Spanish) [Proceedings of the sixth conference of Portuguese and Spanish mathematicians. Part I] 86h:00009a
- School-seminar:**
Georgian Republic, topological aspects of the theory of functions ★ Тезисы научных сообщений республиканской школы-семинара "Топологические аспекты теории функций". (Russian) [Abstracts of scientific papers of the Georgian Republic school-seminar "Topological aspects of the theory of functions"] (Not in MR)
- Seminar:**
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- Session:**
Classical real analysis ★ Classical real analysis. 86f:00013
- Some problems in mathematics and mechanics** ★ Некоторые вопросы математики и механики. (Russian) [Some problems in mathematics and mechanics] (Not in MR)
- Split** ★ *IV conference on applied mathematics.* 86g:00007
- Srni** ★ *Proceedings of the 12th winter school on abstract analysis.* 86a:00004
- Summer institute:**
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- Symposium:**
Chilean, mathematics ★ Analysis, geometry, and probability. 86e:00014
Real analysis ★ Eighth symposium on real analysis. 86d:00017
- Tbilisi** ★ *Республиканская конференция молодых ученых и специалистов по актуальным проблемам прикладной математики и механики.* (Russian) [Conference of young scientists and specialists on current problems in applied mathematics and mechanics of the Georgian Republic] 86d:00012
- Telavi** ★ *X Республиканская научно-методическая конференция математиков высших учебных заведений грузинской ССР.* (Russian. Georgian summary) [Tenth scientific-methodological conference of mathematicians of the institutes of higher learning of the Georgian SSR] (Not in MR)
- Tel Aviv** ★ *Proceedings of the twenty-sixth Israel annual conference on aviation and astronautics.* 86g:00011
- Theoretical and applied mechanics** ★ Theoretical and applied mechanics. 86m:00013
- Transactions:**
Army conference on applied mathematics and computing ★ Transactions of the second Army conference on applied mathematics and computing. 86f:00020
- Transport and propagation in nonlinear systems** ★ Transport and propagation in nonlinear systems. 86e:00017
- Troy, N.Y.** ★ *Transactions of the second Army conference on applied mathematics and computing.* 86f:00020
- Valparaiso** ★ *Analysis, geometry, and probability.* 86e:00014
- Varna** ★ *Complex analysis and applications.* 86i:00013
- Vilnius** ★ *Contributions to general algebra. 3.* 86i:00014
- Vilnius** ★ *The 22nd conference of the Lithuanian Mathematical Society (Vilnius, June 16-17, 1981). Abstracts.* (Russian) 86a:00003
- Vladivostok** ★ *Mathematical models in physics and chemistry and numerical methods of their realization.* 86d:00014
- Warsaw** ★ *Proceedings of the international congress of mathematicians. Vol. 1, 2.* 86g:00010
- Winter school:**
Abstract analysis ★ *Proceedings of the 12th winter school on abstract analysis.* 86e:00004
- Wismar** ★ *Anwendung mathematischer Methoden bei der Lösung technischer und technologischer Probleme. Sektion A: Mathematische Methoden in der Mechanik.* (German) [Application of mathematical methods for the solution of technical and technological problems. Section A: Mathematical methods in mechanics] 86i:00011a
- Workshop:**
Mathematical, Bonn ★ *Arbeitstagung Bonn 1984. [Workshop Bonn 1984]* 86e:00018
- secondary classifications (00A11)
- (Ambarzumyan, R. V.) *See Stochastic geometry, geometric statistics, stereology.* 86d:00007
- (Barnes, Jonathan) *See Science and speculation.* 86i:01006
- (Brunschwig, Jacques) *See Science and speculation.* 86i:01006
- (Burnyeat, Myles) *See Science and speculation.* 86i:01006
- (DeWitt, Bryce S.) *See Relativity, groups and topology.* 86m:83004
- (Doltsinis, J. St.) *See FENOMECH '84.* 86j:85007a and 86j:85007b
- (Frits, J.) *See Statistical physics and dynamical systems.* 86j:82002
- (Gaines, Fergus J. (with Laffey, Thomas J.)) *Report on the Dublin Matrix Theory Conference, March 1984.* 86e:15001
- (Götte, Helma) *See Music and mathematics.* 86f:00032
- (Greco, Donato) *See Methods of functional analysis and theory of elliptic equations.* 86j:35002
- (Hägerstrand, T.) *See The identification of progress in learning.* 86g:00017
- (Haken, Hermann) *See Complex systems—operational approaches in neurobiology, physics, and computers.* 86j:92001
- (Jaffe, Arthur) *See Statistical physics and dynamical systems.* 86j:82002
- (von Karajan, Herbert) *See Music and mathematics.* 86f:00032
- (Laffey, Thomas J. See Gaines, Fergus J., 86e:15001
- (McLaughlin, David W.) *See Inverse problems.* 86i:00035
- (Miranda, Carlo) *See Methods of functional analysis and theory of elliptic equations.* 86j:35002
- (Prästaro, Agostino) *See Proceedings: Geometrodynamics.* 86m:58007
- (Rosenfeld, Moshe) *See Convexity and graph theory.* 86g:52001
- (Salinetti, G.) *See Multifunctions and integrands.* 86b:90004
- (Sanchez, Elie) *See Fuzzy information, knowledge representation and decision analysis.* 86f:90003
- (Schofield, Malcolm) *See Science and speculation.* 86i:01006
- (Stora, R.) *See Relativity, groups and topology.* 86m:83004
- (Szasz, Domokos) *See Statistical physics and dynamical systems.* 86j:82002
- (Well, Wolfgang) *See Stochastic geometry, geometric statistics, stereology.* 86d:80007
- (Wills, Rudolf) *See Music and mathematics.* 86f:00032
- (Zaka, Joseph) *See Convexity and graph theory.* 86g:52001
- Catania** ★ *Multifunctions and integrands.* 86b:90004
- Colloquium:**
Random fields: rigorous results in statistical mechanics ★ Statistical physics and dynamical systems. 86j:82002
- The identification of progress in learning** ★ The identification of progress in learning. 86g:00017
- Colmar** ★ *The identification of progress in learning.* 86g:00017
- Complex systems—operational approaches in neurobiology, physics, and computers** ★ Complex systems—operational approaches in neurobiology, physics, and computers. 86j:92001
- Conference:**
Convexity and graph theory ★ Convexity and graph theory. 86g:52001
Finite elements in nonlinear mechanics ★ FENOMECH '84. Part I, II. 86j:85007a
Multifunctions and integrands ★ Multifunctions and integrands. 86b:90004
Stochastic geometry, geometric statistics, stereology ★ Stochastic geometry, geometric statistics, stereology. 86d:80007
- Convexity and graph theory** ★ Convexity and graph theory. 86g:52001
- Coimbra** ★ *Geometrodynamics proceedings 1983.* 86m:58007
- FENOMECH '84** ★ FENOMECH '84. Part I, II. 86j:85007a
- Fuzzy information, knowledge representation and decision analysis** ★ Fuzzy information, knowledge representation and decision analysis. 86f:90003
- IFAC symposium:**
Fuzzy information, knowledge representation and decision analysis ★ Fuzzy information, knowledge representation and decision analysis. 86f:90003
- Inverse problems** ★ Inverse problems. 86i:00035
- Jerusalem** ★ *Convexity and graph theory.* 86g:52001
- Köses** ★ *Statistical physics and dynamical systems.* 86j:82002
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- Marseille** ★ *Fuzzy information, knowledge representation and decision analysis.* 86f:90003
- Meeting:**
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- Methods of functional analysis and theory of elliptic equations** ★ Methods of functional analysis and theory of elliptic equations. 86j:35002
- Methods of functional analysis and theory of elliptic equations** ★ Methods of functional analysis and theory of elliptic equations. 86j:35002
- Multifunctions and integrands** ★ Multifunctions and integrands. 86b:90004
- Music and mathematics** ★ Musik und Mathematik. (German) [Music and mathematics] 86f:00032
- Musik und Mathematik** ★ Musik und Mathematik. (German) [Music and mathematics] 86f:00032
- Naples** ★ *Methods of functional analysis and theory of elliptic equations.* 86j:35002
- New York** ★ *Inverse problems.* 86i:00035
- Oberwolfach** ★ *Stochastic geometry, geometric statistics, stereology.* 86d:80007
- Proceedings:**
Geometrodynamics ★ *Geometrodynamics proceedings 1983.* 86m:58007
- Relativité, groupes et topologie** ★ Relativité, groupes et topologie. II. [Relativity, groups and topology. II] 86m:83004
- Relativity, groups and topology** ★ Relativité, groupes et topologie. II. [Relativity, groups and topology. II] 86m:83004
- Salsburg** ★ *Musik und Mathematik.* (German) [Music and mathematics] 86f:00032
- Schloss Elmau** ★ *Complex systems—operational approaches in neurobiology, physics, and computers.* 86j:92001
- Science and speculation** ★ Science and speculation. 86i:01006
- Statistical physics and dynamical systems** ★ Statistical physics and dynamical systems. 86j:82002
- Stochastic geometry, geometric statistics, stereology** ★ Stochastic geometry, geometric statistics, stereology. 86d:80007
- Summer school:**
Theoretical physics ★ Relativité, groupes et topologie. II. [Relativity, groups and topology. II] 86m:83004
- Symposium:**
Easter, music and mathematics ★ Musik und Mathematik. (German) [Music and mathematics] 86f:00032
- SIAM-AMS, inverse problems** ★ Inverse problems. 86i:00035
- Synergetics** ★ *Complex systems—operational approaches in neurobiology, physics, and computers.* 86j:92001
- The identification of progress in learning** ★ The identification of progress in learning. 86g:00017
- Workshop:**
Random fields: rigorous results in statistical mechanics ★ Statistical physics and dynamical systems. 86j:82002

00A12 Translation volumes, reprints, etc. [See also 01A75.]

- (Dmitriev, V. G.) See *Vibrations and stability of multiply connected thin-shelled systems*, 86d:00018
- (Gohberg, Israel) See Krein, M. G., 86m:00014
- (Jacob, Andrei) See Krein, M. G., 86m:00014
- (Kadomtsev, B. B.) See *Synergetics*, 86f:00023
- Krein, M. G. ★ Topics in differential and integral equations and operator theory. 86m:00014
- (Leifman, Lev J.) See *American Mathematical Society Translations, Ser. 2, 86f:00021 and Selected translations in mathematical statistics and probability*, 86g:00014
- (Oleinik, O. A.) See *Topics in modern mathematics*, 86e:00019
- (Probozhanakli, I. N.) See *Vibrations and stability of multiply connected thin-shelled systems*, 86d:00018
- American Mathematical Society Translations, Ser. 2 ★ American Mathematical Society Translations, Ser. 2, Vol. 126. 86f:00021
- Boundary value problems of mathematical physics ★ Boundary value problems of mathematical physics. VII. 86f:00022
- Selected translations ★ [Selected translations]. 86g:00013
- Selected translations in mathematical statistics and probability ★ Selected translations in mathematical statistics and probability. Vol. 16. 86g:00014
- Seminar:
- Petrovskii ★ Topics in modern mathematics. 86e:00019
- Synergetics ★ Синергетика. (Russian) [Synergetics] 86f:00023
- Topics in modern mathematics ★ Topics in modern mathematics. 86e:00019
- Transactions of the Moscow Mathematical Society ★ Transactions of the Moscow Mathematical Society, 1984, Issue 1. 86b:00004
- Vibrations and stability of multiply connected thin-shelled systems ★ Колебания и устойчивость многосвязных тонкостенных систем. (Russian) [Vibrations and stability of multiply connected thin-shelled systems] 86d:00018
- secondary classifications (00A12)
- (Borovkov, A. A.) See *Advances in probability theory: limit theorems and related problems*, 86f:00002
- Franco de Oliveira, A. J. See Sebastião e Silva, José, 86k:01052
- Sebastião e Silva, José (with Franco de Oliveira, A. J.) On automorphisms of arbitrary mathematical systems. 86k:01052
- Advances in probability theory: limit theorems and related problems ★ Advances in probability theory: limit theorems & related problems. 86f:00002
- Progress des mathématiques ★ Les progrès des mathématiques. (French) [Progress in mathematics] 86m:00003
- Progress in mathematics ★ Les progrès des mathématiques. (French) [Progress in mathematics] 86m:00003

00A15 General bibliographies

- (Croswell, Bill) See *Index: IEEE Trans. Antennas and Propagation* (Not in MR)
- Kinowska, Małgorzata See Michalczyk, Barbara (Not in MR) and *Bibliography: History of science and technology* (Not in MR)
- (Lee, Jen Fei) See *Index: Author, J. Statist. Phys.* (Not in MR)
- Michalczyk, Barbara (with Kinowska, Małgorzata) Current bibliography of the history of science and technology. No. 54 (April–June 1984). (Polish) (Not in MR)
- (with Kinowska, Małgorzata) Current bibliography of the history of science and technology. No. 56 (October–December, 1984). (Polish) (Not in MR)
- (with Kinowska, Małgorzata) Current bibliography of the history of science and technology. No. 55 (July–September, 1984). (Polish) (Not in MR)
- See also *Bibliography: History of science and technology* (Not in MR)
- (Neu, John A.) See *Bibliography: History of science and its cultural influences*, 86a:00005 and 86c:00011
- Schaaf, William L. Vestpocket bibliographies. I. Pythagoras and rational triangles; geoboard and lattices. 86f:00024a
- Vestpocket bibliographies. II. Combinatorics; gambling and sports. 86f:00024b
- Vestpocket bibliographies. III. Tessellations and polyominoes; art and music. 86j:00014a
- Vestpocket bibliographies. IV. Recreational miscellany. 86j:00014b
- Vestpocket bibliographies. V. Polyhedra; topology; map coloring. 86j:00014c
- Bibliography:
- Combinatorics, gambling and sports See Schaaf, William L., 86f:00024b
- History of science and its cultural influences One hundred eighth critical bibliography of the history of science and its cultural influences. 86a:00005
- History of science and technology Current bibliography of the history of science and technology. No. 52/53 (Oct. 1983–March 1984). (Polish) (Not in MR)
- Polyhedra; topology; map coloring See Schaaf, William L., 86j:00014c
- Rational triangles and lattices See Schaaf, William L., 86f:00024a
- Recreational miscellany See Schaaf, William L., 86j:00014b
- Tessellations and polyominoes; art and music See Schaaf, William L., 86j:00014a
- Index:
- Ann. Hist. Comput. Cumulative index, Volumes 1 through 5. 86a:00006
- Author, J. Statist. Phys. Author index: Journal of Statistical Physics, 1969–1985. (Not in MR)
- Bulletin of Mathematical Association of India Bulletin of Mathematical Association of India. Contents: Volumes I–XVI (1969–1984). (Not in MR)
- IEEE Trans. Antennas and Propagation Preface. (Not in MR)
- Internat. Econom. Rev. Cumulative index: Volumes 1 through 25, 1960–1984. 86i:00021
- Rev. Roumaine Math. Pures Appl. Author Index. Volumes 1 (1956) to 30 (1985). (Not in MR)
- Rostock. Math. Kolloq. Inhaltsverzeichnis der Reihe Rostocker Mathematisches Kolloquium. Heft 1 bis 25. [Table of contents of the series Rostocker Mathematisches Kolloquium, issues 1–25] (Not in MR)

Volumes 1–100 Index: Vol. 1 (1950)–Vol. 100 (1985). 86k:00008

Volumes 1–25 Cumulative index: Volumes 1–25 (1927–82). 86k:00009

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secondary classifications (00A15)

- Friedman, Robert M. See Jungck, John R., 86b:92009
- (Grigor'yan, A. T.) See *History of natural science*, 86f:01001a and 86f:01001b
- Jungck, John R. (with Friedman, Robert M.) Mathematical tools for molecular genetics data: an annotated bibliography. 86b:92009
- Lester, J. A. Works on functional equations. VIII. 86b:39001a
- Works on functional equations. IX. 86b:39001b
- Poggendorff, J. C. ★ Biographisch-literarisches Handwörterbuch der exakten Naturwissenschaften. Band VIIb. Teil 7. Lieferung 1. [Biographical-literary lexicon of the exact natural sciences. Vol. VIIb. Part 7. No. 1] 86k:00012a
- ★ Biographisch-literarisches Handwörterbuch der exakten Naturwissenschaften. Band VIIb. Teil 7. Lieferung 2. [Biographical-literary lexicon of the exact natural sciences. Vol. VIIb. Part 7. No. 2] 86k:00012b
- ★ Biographisch-literarisches Handwörterbuch der exakten Naturwissenschaften. Band VIIb. Teil 7. Lieferung 3. [Biographical-literary lexicon of the exact natural sciences. Vol. VIIb. Part 7. No. 3] 86k:00012c
- ★ Biographisch-literarisches Handwörterbuch der exakten Naturwissenschaften. Band VIIb. Teil 7. Lieferung 4. [Biographical-literary lexicon of the exact natural sciences. Vol. VIIb. Part 7. No. 4] 86k:00012d
- ★ Biographisch-literarisches Handwörterbuch der exakten Naturwissenschaften. Band VIIb. Teil 7. Lieferung 5. [Biographical-literary lexicon of the exact natural sciences. Vol. VIIb. Part 7. No. 5] 86k:00012e
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- (von Randow, R.) See *Integer programming and related areas*, 86f:90001
- Rus, Ioan A. Seminar on fixed point theory: fifteen years of activity. 86m:01047
- Slakos, Jean (with Wächer, Gerhard; Winkels, Heinz-Michael) A bibliography on outranking approaches (1966–1982). 86b:90129
- (Tomber, M. L.) See *Tomber's bibliography and index in nonassociative algebras*, 86d:17001
- Wächer, Gerhard See Slakos, Jean et al., 86b:90129
- Winkels, Heinz-Michael See Slakos, Jean et al., 86b:90129
- Bibliography:
- Functional equations See Lester, J. A., 86b:39001a
- History of natural science ★ История естествознания. (Russian) [History of natural science] 86f:01001a
- Integer programming ★ Integer programming and related areas. 86f:90001
- Mathematical tools for molecular genetics data See Jungck, John R., 86b:92009
- Nonassociative algebras ★ Tomber's bibliography and index in nonassociative algebras. Vols. I–III. 86d:17001
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- Dictionary:
- Exact natural sciences, biographical-literary See Poggendorff, J. C., 86k:00012c
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- History of natural science ★ История естествознания. (Russian) [History of natural science] 86f:01001a
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- Integer programming and related areas ★ Integer programming and related areas. 86f:90001
- Tomber's bibliography and index in nonassociative algebras ★ Tomber's bibliography and index in nonassociative algebras. Vols. I–III. 86d:17001

00A20 Dictionaries and other general reference works

- Al-Aqeel, Adnan A. See Dannan, Fosi M. et al., 86j:00015
- Bakir, Saad T. See Dannan, Fosi M. et al., 86j:00015
- Bronshteln, I. N. (with Semendyaev, K. A.) ★ Handbook of mathematics. 86k:00010
- Croton, Clive A. ★ Russian for the scientist and mathematician. 86k:00011
- Dannan, Fosi M. (with Bakir, Saad T.; Elaydi, Saber; Farran, Hani R.; Al-Aqeel, Adnan A.) ★ Kuwait science encyclopedia: mathematics. Vol. 1–4. (Arabic) 86j:00015
- Elaydi, Saber See Dannan, Fosi M. et al., 86j:00015
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- Yaglom, I. M. Algebra und Geometrie als alternative Sprachen mathematischen Denkens. [Algebra and geometry as alternative languages in mathematical thinking] 86g:00016

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- Boričič, Branislav R. One of the possible formal descriptions of deducibility. 86f:03019
- Gao, Heng Shan Comments on: "The interpolation theorem for the propositional calculus $P(\kappa)$ when κ is a strongly inaccessible cardinal" [Acta Math. Sinica 23 (1980), no. 2, 177-182; MR 82i:03014] by L. B. Luo. (Chinese) 86a:03007
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- Hoare, C. A. R. A couple of novelties in the propositional calculus. 86m:03017
- Langley, Patrick (with Larson, Peter; Silas, Susan; Wertz, Spencer) A proof of $CnqNp$ from Cpq by the rule of detachment in Jeffrey's system 5.6. 86b:03014
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- Van Gelder, Allen A satisfiability tester for nonclausal propositional calculus. 86k:03006

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- (with Gurevich, Yuri; Shelah, S.) A decidable subclass of the minimal Gödel class with identity. 86g:03015b
- Grieder, Alfons On an application of truth-functions to the logic of predicates. 86e:03011
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- Coser, Stephen D. The elementary theory of interval real numbers. **86h:03009**
- Cosserford, Leo P., Jr. (with Edmunds, Charles C.) Quadratic parametric equations over free groups. **86f:20035**
- Densberg, Larry (with Lewis, Harry R.) The complexity of the satisfiability problem for Krom formulas. **86m:03070**
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- Lankford, D. S. (with Butler, G. A.; Ballantyne, A.) A progress report on new decision algorithms for finitely presented abelian groups. **86c:20040**

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- Lynch, James F. Probabilities of first-order sentences about unary functions. **86g:03053**
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- Point, François Transfer properties of discriminator varieties. (See **86m:03003**)
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- Rapp, Andreas The ordered field of real numbers and logics with Malitz quantifiers. **86m:03023**

- Weese, Martin (with Goltz, Hans-Joachim) ★ Boolean algebras. **86b:06001**

03C85 Second- and higher-order model theory

- Combasse, J. Introduction à la logique stationnaire. [Introduction to stationary logic] **86m:03063**

- Gurevich, Yuri (with Shelah, S.) The monadic theory and the "next world". **86m:03064**

- Heindorf, Lutz Regular ideals and Boolean pairs. **86g:03063**

- Scarpellini, Bruno Complete second order spectra. **86f:03059**

- Shelah, S. See Gurevich, Yuri, **86m:03064**

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- Blatter, Chr. (with Specker, E.) Recurrence relations for the number of labeled structures on a finite set. **86k:03021**
 Danilo, Wiktor Algorithmic logic with stacks and its model-theoretical properties. **86m:68083**
 Flum, J. Modelltheorie—topologische Modelltheorie. [Model theory—topological model theory] **86a:03035**
 Kaufmann, Matt (with Shelah, S.) On random models of finite power and monadic logic. **86m:03049**
 Krynicki, Michał Interpretations in nonelementary languages. (See **86m:03003**)
 Shelah, S. See Kaufmann, Matt, **86m:03049**
 Specker, E. See Blatter, Chr., **86k:03021**

03C90 Nonclassical models (Boolean-valued, sheaf, etc.)

- Alves, Elias H. Paraconsistent logic and model theory. **86i:03049**
 Bugajski, Sławomir Semantics in Banach spaces. **86c:03036**
 Koppelberg, Sabine Boolesche Wertige Logik. [Boolean-valued logic] **86e:03039**
 Shen, Fu Xing The forcing method for lattice-valued models. (Chinese) (Not in MR)

secondary classifications (03C90)

- Grayson, R. J. Heyting-valued semantics. **86f:03099**
 Marković, Zoran On reduced products of Kripke models. **86g:03101**
 (Mittelstaedt, Peter) See Takeuti, Gaisi, **86g:03108**
 Moerdijk, Ieke Heine-Borel does not imply the fan theorem. **86h:03106**
 Nute, Donald Permission. **86h:03026**
 Takeuti, Gaisi Quantum logic and quantization. **86g:03108**
 Volger, Hugo Filtered and stable Boolean powers are relativized full Boolean powers. **86e:03033**
 Woodruff, Peter W. On supervaluations in free logic. **86m:03020**

03C95 Abstract model theory

- Font i Llovet, Josep Ma. Introduction of interiors of order in abstract logics. (Catalan. English summary) (See **86g:00012a**)
 Hien, Bui Huy Elementary classes in the injective subcategories approach to abstract model theory. **86h:03044**
 Makowsky, J. A. Vopěnka's principle and compact logics. **86h:03073**
 Mundici, Daniele Abstract model-theory and nets of C^* -algebras: noncommutative interpolation and preservation properties. **86m:03066**
 Abstract model theory of many-valued logics and K -theory of certain C^* -algebras. **86m:03065**
 Embeddings, amalgamation and elementary equivalence: the representation of compact logics. **86e:03040**

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- Goldblatt, Robert An abstract setting for Henkin proofs. **86f:03021**
 Hien, Bui Huy See Sain, I., **86j:18002**
 Mundici, Daniele Δ -tautologies, uniform and nonuniform upper bounds in computation theory. (Italian summary) **86d:03037**
 Sain, I. (with Hien, Bui Huy) Category theoretic notions of ultraproducts. **86j:18002**

03C99 None of the above, but in this section

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- Funk, Kenneth H. Theories, models, and human-machine systems. **86h:00023**
 van der Hoeven, Gerrit (with Moerdijk, Ieke) Sheaf models for choice sequences. **86m:03091**
 Moerdijk, Ieke See van der Hoeven, Gerrit, **86m:03091**

03Dxx Recursion theory

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- Davis, Martin D. (with Weyuker, Elaine J.) ★ Computability, complexity, and languages. 86b:03001
- (Nerode, A.) See Recursion theory. 86f:03004
- Noltemeier, Hartmut ★ Informatik. I. (German) [Informatics. I] 86f:03001a
- ★ Informatik. III. (German) [Informatics. III] 86f:03001c
- (Shore, Richard A.) See Recursion theory. 86f:03004
- Weyuker, Elaine J. See Davis, Martin D., 86b:03001
- Ithaca, N.Y. ★ Recursion theory. 86f:03004
- Proceedings of Symposia in Pure Mathematics ★ Recursion theory. 86f:03004
- Recursion theory ★ Recursion theory. 86f:03004
- Summer Institute: Recursion theory ★ Recursion theory. 86f:03004

03D03 Thue and Post systems, etc.

- Kapur, D. (with Krishnamoorthy, M. S.; McNaughton, R.; Narendran, P.) An $O(|T|^3)$ algorithm for testing the Church-Rosser property of Thue systems. 86j:03037
- Krishnamoorthy, M. S. See Kapur, D. et al., 86j:03037
- Markov, Andrei Andreevich (with Nagornyi, N. M.) ★ Теория алгоритмов. (Russian) [The theory of algorithms] 86k:03027
- McNaughton, R. See Kapur, D. et al., 86j:03037
- Nagornyi, N. M. See Markov, Andrei Andreevich, 86k:03027
- Narendran, P. See Kapur, D. et al., 86j:03037
- Potts, D. H. Remarks on an example of Jantzen. 86h:03074

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- Berstel, Jean Some recent results on squarefree words. 86e:68056
- Kapur, D. (with Narendran, P.) A finite Thue system with decidable word problem and without equivalent finite canonical system. 86h:68091
- de Luca, Aldo On the product of square-free words. 86h:20093
- Narendran, P. See Kapur, D., 86h:68091
- Otto, Friedrich Some undecidability results for nonmonadic Church-Rosser Thue systems. 86f:68014
- (Post, Emil L.) See Uspenskii, V. A. (Not in MR)
- (Ribeiro Prestes, Antônio João) See Uspenskii, V. A. (Not in MR)
- Shelton, R. O. (with Soni, R. P.) Chains and fixing blocks in irreducible binary sequences. 86h:68097
- Soni, R. P. See Shelton, R. O., 86h:68097
- Uspenskii, V. A. ★ A máquina de Post. (Portuguese) [Post machines] (Not in MR)

03D05 Automata and formal grammars in connection with logical questions [See also 18B20, 68Qxx.]

- Hayashi, Takeshi (with Miyano, Satoru) Finite tree automata on infinite trees. 86k:03028
- Miyano, Satoru See Hayashi, Takeshi, 86k:03028
- Rödding, Dieter Some logical problems connected with a modular decomposition theory of automata. 86m:03067
- Tătăram, Sanda-Monica Ackermann-Péter's function has primitive recursive graph and range. 86k:03029
- Volger, Hugo Rudimentary relations and Turing machines with linear alternation. 86m:03068

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- Amir, Amihoud (with Choueka, Yaacov) Polynomial computations in nondeterministic loop-programs and PL-programs. 86a:68022
- Angluin, Dana (with Hoover, Douglas N.) Regular prefix relations. 86c:68015
- Arbib, Michael A. See Steenstrup, Martha et al., 86c:68022
- Auzga, A. Construction of a complete system of examples for a class of programs. (Russian) 86h:68013
- Bavel, Zamilr (with Grzymala-Busse, Jerzy; Soo Hong, Kwang) On the connectivity of the product of automata. 86c:68074
- Beauquier, D. (with Perrin, Dominique) Codeterministic automata on infinite words. 86i:68028
- Blah, Maurice Quelques langages algébriques. [Some algebraic languages] 86k:68049
- Bloom, Stephen L. Frontiers of one-letter languages. 86c:68043
- Borm, Alfred E. (with Rosier, L. E.) A note on Parikh maps, abstract languages, and decision problems. 86m:68035
- Brauer, Wilfried (with Lange, K.-J.) Nondeterministic two-tape automata are more powerful than deterministic ones. 86h:68033
- Bucher, Walter (with Maurer, Hermann) ★ Theoretische Grundlagen der Programmiersprachen. (German) [Theoretical foundations of programming languages] 86j:68061
- (with Culik, K., II) On real time and linear time cellular automata. (French summary) 86h:68133
- Černý, A. On generalized words of Thue-Morse. 86j:68062
- Chirkov, M. K. ★ Частичные автоматы. (Russian) [Partial automata] 86g:68040
- Choffrut, C. (with Culik, K., II) On real-time cellular automata and treillis automata. 86g:68127
- Choueka, Yaacov See Amir, Amihoud, 86a:68022
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- Variations on the technique of Duris and Galil. 86i:68029
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- Duris, Pavol (with Kromkovic, Juraj) One-way simple multihead finite automata are not closed under concatenation. 86g:68084

- Ehrenfeucht, Andrzej (with Hausler, David; Rozenberg, Grzegorz) On ambiguity in DOS systems. (French summary) 86g:68085
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- Automata, tableaux, and temporal logics. (See 86f:68007)
- Fachini, E. (with Napoli, M.) Hierarchies of primitive recursive wordsequence functions: comparisons and decision problems. 86h:68034
- Filá, Gilberto Tree automata and logic programs. (See 86b:68006)
- Gécseg, F. (with Steinby, Magnus) ★ Tree automata. 86c:68061
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- Hausler, David See Warmuth, Manfred, 86f:68016 and Ehrenfeucht, Andrzej et al., 86g:68085
- Hayashi, Takeshi See Miyano, Satoru, 86c:68079 and 86g:68094
- Head, Tom Adherences of DOL languages. 86h:68023
- Heller, Hans See Zachos, Stathis, 86h:68066
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- Hierarchy of reversal and zero-testing bounded multicounter machines. 86h:68055
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- Hunt, H. B., III Terminating Turing machine computations and the complexity and/or decidability of correspondence problems, grammars, and program schemes. (Not in MR)
- Huynh, Dũng T. Deciding the inequivalence of context-free grammars with 1-letter terminal alphabet is Σ_2^1 -complete. 86h:68058
- Ibarra, Oscar H. (with Kim, Sam M.; Rosier, L. E.) Space and time efficient simulations and characterizations of some restricted classes of PDAs. 86c:68031
- (with Kim, Sam M.) A characterization of systolic binary tree automata and applications. 86k:68015
- (with Kim, Sam M.; Moran, Shlomo) Sequential machine characterizations of trellis and cellular automata and applications. 86d:68055
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- Kobayashi, Kojiro (with Takahashi, Masako; Yamasaki, Hideki) Characterization of ω -regular languages by first-order formulas. 86h:68037
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- Kott, L. See Darondau, Ph., 86i:68087
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- See also Beauquier, D., 86i:68028 and Automata on infinite words, 86h:68006

- Plátek, Martin Recognizing of languages by composition of deterministic pushdown transducers. **86c:68058**
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- Regan, Kenneth W. On diagonalization methods and the structure of language classes. **86h:68063**
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- Rosenberg, Grzegorz See Ehrenfeucht, Andrzej et al., **86g:68085** and Latteux, M., **86g:68092**
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- Sajo, Anni On subword complexity functions. **86a:68059**
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- Thomas, Wolfgang Logical aspects in the study of tree languages. **86k:68058**
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- Zachos, Stathis (with Heller, Hans) A new characterization of BPP. **86h:68066**
- Automata on infinite words ★ Automata on infinite words. **86h:68006**
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- Spring school:
- Automata on infinite words ★ Automata on infinite words. **86h:68006**

03D10 Turing machines and related notions [See also 68Q05.]

- Chiebus, B. S. See Chrobak, M., **86m:03099**
- Chrobak, M. (with Chiebus, B. S.) Probabilistic Turing machines and recursively enumerable Dedekind cuts. **86m:03069**
- Đurić, Pavol (with Galil, Zvi; Paul, Wolfgang; Reischuk, Rüdiger) Two nonlinear lower bounds for on-line computations. **86d:03034**
- Galil, Zvi See Đurić, Pavol et al., **86d:03034**
- Hasenjaeger, G. Universal Turing machines (UTM) and Jones-Matiyasevich-masking. **86i:03050**
- Paul, Wolfgang See Đurić, Pavol et al., **86d:03034**
- Relchuk, Rüdiger See Đurić, Pavol et al., **86d:03034**

secondary classifications (03D10)

- Avenhaus, J. (with Madlener, K.) The Nielsen reduction and P-complete problems in free groups. **86h:68083**
- Börger, Egon Spektralproblem and completeness of logical decision problems. **86i:03051**
- Borodin, Allan B. (with Cook, S.; Pippenger, N.) Parallel computation for well-endowed rings and space-bounded probabilistic machines. **86j:68038**
- Boyer, Robert S. (with Moore, J. Strother) A mechanical proof of the unsolvability of the halting problem. (Not in MR)
- Cook, S. See Borodin, Allan B. et al., **86j:68038**
- Fürer, Martin Data structures for distributed counting. **86g:68054**
- Geng, Su Yun See Zhang, Li Ang, **86a:68030**
- Hunt, H. B., III Terminating Turing machine computations and the complexity and/or decidability of correspondence problems, grammars, and program schemes. (Not in MR)
- Inoue, Katsushi (with Ito, Akira; Takanami, Itsuo; Taniguchi, Hiroshi) A space-hierarchy result on two-dimensional alternating Turing machines with only universal states. **86i:68043**
- Ito, Akira See Inoue, Katsushi et al., **86i:68043**
- Ivanov, A. G. Recognition of approximate occurrence of words on a Turing machine in real time. (Russian) **86c:68018**
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- Moore, J. Strother See Boyer, Robert S. (Not in MR)
- Pippenger, N. See Borodin, Allan B. et al., **86j:68038**
- Ralf, John Henry The complexity of two-player games of incomplete information. **86c:68026**
- Revin, O. M. (with Tsivilin, Ya. V.) Operations over conditionally recognizable classes of matrices. (Russian. English summary) (Not in MR)
- Ruohonen, Keijo A note on off-line machines with "Brownian" input heads. **86a:68025**
- Russo, Walter L. (with Simon, Janice; Tompa, Martin) Space-bounded hierarchies and probabilistic computations. **86g:68060**

- Scarpellini, Bruno Complete second order spectra. **86f:03059**
- Simon, Janice See Russo, Walter L. et al., **86g:68060**
- Takanami, Itsuo See Inoue, Katsushi et al., **86i:68043**
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- Tompa, Martin See Russo, Walter L. et al., **86g:68060**
- Tsivilin, Ya. V. See Revin, O. M. (Not in MR)
- Vitányi, Paul M. B. On two-tape real-time computation and queues. **86g:68045**
- On the simulation of many storage heads by one. **86d:68021**
- Volger, Hugo Rudimentary relations and Turing machines with linear alternation. **86m:03068**
- Wojciechowski, Jerzy Classes of transfinite sequences accepted by nondeterministic finite automata. **86i:68033**
- Zhang, Li Ang (with Geng, Su Yun) A note on the formal definition of "Turing reduction". (Chinese. English summary) **86a:68030**

03D15 Complexity of computation

- Ambos-Spies, Klaus (with Fleischhack, Hans; Hagen, Hwig) p -generic sets. **86c:03041**
- Blass, Andreas (with Gurevich, Yuri) Equivalence relations, invariants, and normal forms. II. **86g:03064b**
- (with Gurevich, Yuri) Equivalence relations, invariants, and normal forms. **86g:03064a**
- Börger, Egon Spektralproblem and completeness of logical decision problems. **86i:03051**
- Dahlhaus, Elias Reduction to NP-complete problems by interpretations. **86f:03060**
- Denenberg, Larry (with Lewis, Harry R.) The complexity of the satisfiability problem for Krom formulas. **86m:03070**
- Fleischhack, Hans See Ambos-Spies, Klaus et al., **86c:03041**
- Friedman, Harvey The computational complexity of maximization and integration. **86c:03037**
- On the spectra of universal relational sentences. **86i:03052**
- Fürer, Martin The computational complexity of the unconstrained limited domino problem (with implications for logical decision problems). **86i:03053**
- Gurevich, Yuri Toward logic tailored for computational complexity. **86f:03061**
- See also Blass, Andreas, **86g:03064a** and **86g:03064b**
- Hagen, Hwig See Ambos-Spies, Klaus et al., **86c:03041**
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- Ko, Ker-I On the computational complexity of ordinary differential equations. **86d:03035**
- Kowalczyk, Wojciech Some connections between presentability of complexity classes and the power of formal systems of reasoning. **86i:03054**
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- Speckenmeyer, E. See Monien, Burkhard, **86m:03071**
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- Wang, Jie A necessary and sufficient condition for the existence for a given B of an A such that $P^A = NP^B$. (Chinese) (Not in MR)
- Wechsung, Gerd On sparse complete sets.
- Young, Paul Gödel theorems, exponential difficulty and undecidability of arithmetic theories: an exposition. **86j:03038**
- Zeugmann, Th. Recursive operators versus recursive functions with respect to the generation of classes of functions having a fastest program. **86c:03038**

secondary classifications (03D15)

- Aizenshtein, M. Kh. Complexity of calculation of the kneading invariant of discontinuous mappings of an interval. (Russian) **86h:58078**
- Ambos-Spies, Klaus P-mitotic sets. **86k:03030**
- On the structure of polynomial time degrees. **86h:68053**
- Amir, Amihod (with Choueka, Yaacov) Polynomial computations in nondeterministic loop-programs and PL-programs. **86a:68022**
- Ausiello, G. Complexity of exact and approximate solution of problems. An introduction. **86c:68023**
- Avenhaus, J. (with Madlener, K.) The Nielsen reduction and P-complete problems in free groups. **86h:68083**
- (with Madlener, K.) On the complexity of intersection and conjugacy problems in free groups. **86i:20053**
- Balcázar, José L. Simplicity, relativizations and nondeterminism. **86j:68038**
- Bauer, G. (with Otto, Friedrich) Finite complete rewriting systems and the complexity of the word problem. **86m:03074**
- Blair, Howard A. The intractability of validity in logic programming and dynamic logic. (See **86a:68004**)
- Book, Ronald V. Relativizations of complexity classes. **86c:68042**
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- Glass, A. M. W. The isomorphism problem and undecidable properties for finitely presented lattice-ordered groups. (French summary) **86m:06030**
- Hurwits, R. Daniel A survey of the conjugacy problem. **86f:20036**
- Lankford, D. S. (with Butler, G. A.; Ballantyne, A.) A progress report on new decision algorithms for finitely presented abelian groups. **86e:20040**
- Le Chenadeau, Philippe Canonical forms in finitely presented algebras. **86g:68102**
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- Carstens, Hans-Georg (with Pöppinghaus, Peter) Abstract construction of counterexamples in recursive graph theory. **86e:03043**
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- Macintyre, Angus Residue fields of models of P. **86b:03042**
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 Skordev, Dimitar G. A formal system for proving some properties of programs in iterative combinatory spaces. 86d:68051
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 Broy, Manfred On the Herbrand Kleene universe for nondeterministic computations. 86i:68076
 Büchi, J. Richard (with Mahr, Bernd; Siefkes, Dirk) Recursive definition and complexity of functions over arbitrary data structures. 86g:68039
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 Padawits, Peter Equational data type specifications and recursive program schemes. 86i:68078
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 Abraham, U. (with Shelah, S.) Isomorphism types of Aronszajn trees. 86i:03063
 Berner, Andrew J. (with Juhász, I.) Point-picking games and HFDs. 86c:54005
 Donder, Hans-Dieter Another look at gap-1 morasses. 86i:03046
 Grantam, S. B. Galvin's "racing pawns" game and a well-ordering of trees. 86d:04002
 Hajnal, A. (with Nagy, Zs.) Ramsey games. 86b:04001
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- Mathias, A. R. D. Unsound ordinals. **86f:03075**
 Milner, Eric C. (with Pouzet, Maurice) The Erdős-Dushnik-Miller theorem for topological graphs and orders. **86g:04002**
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 Burgess, John P. From preference to utility: a problem of descriptive set theory. **86j:03051**
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 Woodin, W. Hugh On the consistency strength of projective uniformization. **86f:03079**
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- Becker, Howard Determinacy of Banach games. **86c:03045**
 A property equivalent to the existence of scales. **86g:03085**
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 Friedman, Sy D. Infinitary logic and 0^\sharp . **86h:03091**
 Harrington, Leo A. (with Shelah, S.) Some exact equiconsistency results in set theory. **86g:03079**
 Kanovei, V. G. On the problem of the existence of non-Borel AF_Π -sets. (Russian) **86j:54068**
 Kechris, Alexander S. The axiom of determinacy implies dependent choices in $L(R)$. **86f:03092**
 Determinacy with complicated strategies. **86h:03095**
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 Maitra, A. (with Srivatsa, V. V.) Parametrizations of Borel sets with large sections. **86k:54031**
 Mansfield, Richard (with Weiskamp, Galen) ★ Recursive aspects of descriptive set theory. **86g:03003**
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 Radošniak, Jean A mathematical proof of S. Shelah's theorem on the measure problem and related results. **86g:03082b**
 Schilling, Kenneth On absolutely Δ^1_2 operations. **86d:54059**

- Shelah, S. Can you take Solovay's inaccessible away? **86g:03082a**
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 Caltech-UCLA, logic ★ Cabal seminar 79-81. **86j:03002**

03E20 Other classical set theory

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- Błaszczyk, Aleksander On the power of lattices of regular open sets. (Russian summary) **86k:06011**
 Pérez-Jiménez, Mario de J. On certain expressions of the rank function, independent of the theory of ordinals. (Spanish. English summary) (See **86g:00012a**)
 Shelah, S. A combinatorial principle and endomorphism rings. I. On p -groups. **86i:16044**
 03E25 Axiom of choice and related propositions
 Bell, J. L. On the strength of the Sikorski extension theorem for Boolean algebras. **86b:03061**
 Brunner, Norbert Amorphe Potenzen kompakter Räume. [Amorphous powers of compact spaces] **86k:03043**
 Positive functionals and the axiom of choice. **86f:03080**
 Carlson, Tim A solution of Ulam's problem on relative measure. **86m:03080**
 Howard, Paul E. Binary consistent choice on pairs and a generalization of König's infinity lemma. **86d:03047**
 Johnstone, P. T. Almost maximal ideals. **86f:03081**
 Kanovei, V. G. ★ Аксиома выбора и аксиома детерминированности. (Russian) [The axiom of choice and the axiom of determinateness] **86h:03085**
 de Oliveira, A. J. Franco Remark on a theory of classes used by A. Machado. **86g:03078**
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- Blass, Andreas Existence of bases implies the axiom of choice. **86a:04001**
 Brunner, Norbert Realisierung und Auswahlaxiom. (English summary) [Realization and axiom of choice] **86m:04005**
 Wellordering theorems in topology. **86m:54043**
 Čuda, K. (with Vojtášková, B.) Models of AST without choice. **86m:03084**
 Howard, Paul E. Subgroups of a free group and the axiom of choice. **86m:04006**
 Kechris, Alexander S. The axiom of determinacy implies dependent choices in $L(R)$. **86f:03092**
 Kennedy, Maurice The connection between nets and filters. **86a:54002**
 Loh, Gabriele The historic development of the logic of mathematics: the case of the axiom of choice. (Italian) **86i:03002**
 Vojtášková, B. See Čuda, K., **86m:03084**

03E30 Axiomatics of classical set theory and its fragments

- Milici, C. Über die Axiomen der Klassen von endlichen Mengen. (Romanian summary) [On the axioms of classes of finite sets] **86i:03062**
 Neumann, O. On the definition of ordered n -tuples. **86d:03048**
 Yasuhara, Mitsuru Extensionality in Bernays set theory. **86b:03062**

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- Breban, Michael (with Ferro, Alfredo) Decision procedures for elementary sublanguages of set theory. III. Restricted classes of formulas involving the power set operator and the general set union operator. **86b:03018**
 Bunder, M. W. A one axiom set theory based on higher order predicate calculus. **86i:03014a**
 Set theory in predicate calculus with equality. **86i:03014b**
 Cantini, Andrea A note on the theory of admissible sets with \in -induction restricted to formulas with one quantifier and related systems. (Italian summary) **86i:03074**
 Ferro, Alfredo See Breban, Michael, **86b:03018**
 Manakos, Jannis On Skala's set theory. **86c:03047**
 Myhill, John Paradoxes. **86g:03008**
 Réaume, Jean-Pierre Deux fantaisies d'univers non standard. (English summary) [Two fantasies of nonstandard universes] **86b:03043**
 Simpson, Stephen G. Reverse mathematics. **86k:03004**
 Temple, G. Sets, numbers and taxa. **86m:03026**

03E35 Consistency and independence results

- Abraham, U. (with Shelah, S.) Isomorphism types of Aronszajn trees. **86i:03063**
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- Zabeshallo, M. I. See Finn, V. K. et al., 86f:03040
- (Zadeh, L. A.) See Biography: Zadeh, Lotfi A., 86h:01065 and Lou, Shi Bo (Not in MR)
- Zenner, Rembrand B. R. C. (with De Caluwe, Rita M. M.; Kerre, E. E.) A new approach to information retrieval systems using fuzzy expressions. (Not in MR)
- Zhang, Shi Sheng Fixed point theorems for fuzzy mappings. 86m:54012
- Zhao, Ru Hual The problem of interchanging the order of a limit and an (N) fuzzy integral. (Chinese) (Not in MR)
- Zheng, Chong You Fuzzy path and fuzzy connectedness. 86a:54006
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- Zheng, Dao Peng The Banach space of F -functions. (Chinese. English summary) 86f:46037
- Zhou, Shi Wu Descriptions of equivalence of O -connectivity. 86j:54015
- Zhu, Nan De Homomorphisms and isomorphisms of fuzzy groups. (Chinese. English summary) 86b:20004
- Zhukov, V. E. (with Korelov, E. S.; Asatiani, G. G.) Karlin's lemma for vector fuzzy preference relations. (Russian) 86a:90004
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- Biography:**
Zadeh, Lotfi A. Coping with the imprecision of the real world. 86h:01065
- Fuzzy set research in People's Republic of China Appendix: Fuzzy set research in People's Republic of China.** 86j:01036b

03E75 Applications

secondary classifications (03E75)

- Carlson, Tim A solution of Ulam's problem on relative measure. 86m:03080
- Evers, J. J. M. (with van Maaren, H.) Duality principles in mathematics and their relations to conjugate functions. 86m:04007
- van Maaren, H. See Evers, J. J. M., 86m:04007

03Fxx Proof theory and constructive mathematics

- Prawitz, Dag Remarks on some approaches to the concept of logical consequence. 86h:03101
- Sieg, Wilfried Foundations for analysis and proof theory. 86c:03055

03F05 Cut-elimination and normal-form theorems

- Beinap, Nuel D., Jr. Display logic. 86f:03094
- Ferbus, Marie-Christine Functorial bounds for cut elimination in $L_{\beta\omega}$. I. 86c:03049
- Nishimura, Hirokazu Hauptsatz for higher-order modal logic. 86a:03063
- Orevkov, V. P. Upper bounds for lengthening of proofs after cut elimination. (Russian. English summary) 86d:03063

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- Avron, Arnon On modal systems having arithmetical interpretations. 86g:03028
- Borga, Marco On some proof theoretical properties of the modal logic GL. 86a:03015
- Bull, Robert The classical propositional calculus of arguments. 86a:03008
- Motohashi, Nobuyoshi Approximation theory of uniqueness conditions by existence conditions. 86k:03001
- Pfenning, Frank Analytic and nonanalytic proofs. 86i:03013
- Pliuškevičienė, Alda Functional regular program logic with invertible rules of inference. (Russian. English and Lithuanian summaries) 86a:03028
- Ronchi Della Rocca, S. (with Venneri, B.) Principal type schemes for an extended type theory. 86d:03017
- Saabo, M. E. Variable truth. 86c:03030
- Tennant, Neil Perfect validity, entailment and paraconsistency. 86i:03026
- Valentini, Silvio The modal logic of provability: cut-elimination. 86a:03019
- Venneri, B. See Ronchi Della Rocca, S., 86d:03017

03F07 Structure of proofs

Schroeder-Heister, Peter Generalized rules for quantifiers and the completeness of the intuitionistic operators $\&, \vee, \supset, \neg, \forall, \exists$. **86k:03053b**
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Grünberg, Teo A tableau system of proof for predicate-functor logic with identity. **86d:03011**
McRobbie, Michael A. (with Belnap, Noel D., Jr.) Proof tableau formulations of some first-order relevant orthologics. (Not in MR)
Tennant, Neil Perfect validity, entailment and paraconsistency. **86i:03026**

03F10 Functionals in proof theory

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03F15 Recursive ordinals and ordinal notations

Arai, Toshiyasu An accessibility proof of ordinal diagrams in intuitionistic theories for iterated inductive definitions. **86a:03064**
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Yasugi, Mariko Groundedness property and accessibility of ordinal diagrams. **86f:03095**

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McBeth, Rod A second normal form for functions of the system EP. **86k:03033**
Selivanov, V. L. On the hierarchy of limit computations. (Russian) **86f:03070**
Slessenger, P. H. On subsets of the Skolem class of exponential polynomials. **86h:03077**
A height restricted generation of a set of arithmetic functions of order-type ε_0 . **86j:03043**
Wainer, S. S. The "slow-growing" Π_1^1 approach to hierarchies. **86k:03039**
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03F20 Complexity of proofs

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Chistov, A. L. (with Grigor'ev, D. Yu.) Complexity of quantifier elimination in the theory of algebraically closed fields. **86i:03040**
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Scedrov, A. Extending Gödel's modal interpretation to type theory and set theory. **86j:03066**

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Mo, Shao Kul (with Ding, De Cheng) Simplification of the axioms of recursive arithmetic. (Chinese) **86a:03065**
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Richard, Denis The arithmetics as theories of two orders. (French summary) **86h:03102**

All arithmetical sets of powers of primes are first-order definable in terms of the successor function and the coprimeness predicate. (French summary) **86h:03103**

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Shelah, S. On logical sentences in PA. **86g:03097**
Skvortsov, D. P. On the question of "how many": definition of the notion of cardinality for finite sets in some systems of arithmetic. (Russian) **86m:03088**
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Tubakov, Martin Gödel's theorem in retrospect. **86g:03098**
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Bernardi, Claudio (with Montagna, Franco) Equivalence relations induced by extensional formulae: classification by means of a new fixed point property. **86g:03074**
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Richard, Denis Définissabilité de l'arithmétique par successeur, coprimarité et puissance. (English summary) [Arithmetical definability from successor, coprimeness and power] **86m:03025**
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03F35 Second- and higher-order arithmetic and fragments [See also 03E30, 03E70.]

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Scowcroft, Phillip The real-algebraic structure of Scott's model of intuitionistic analysis. **86f:03101**
Shelah, S. On logical sentences in PA. **86g:03097**
Simpson, Stephen G. Reverse mathematics. **86k:03004**

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Bernardi, Claudio (with Montagna, Franco) Equivalence relations induced by extensional formulae: classification by means of a new fixed point property. **86g:03074**
Enakia, L. L. Diagonal constructions, the Löb formula and rarefied Cantor spaces. (Russian) **86j:03012**
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- Barendregt, Hendrik Pieter (with Reus, Adrian) Semantics for classical AUTOMATH and related systems. **86g:03100**
- Beeson, M. (with Stedrov, A.) Church's thesis, continuity, and set theory. **86f:03097**
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- Margenstern, Maurice Sur une extension simple du calcul intuitionniste des prédicats du premier ordre appliquée à l'analyse. [A simple extension of first-order intuitionistic predicate calculus applied to analysis] **86k:03064**
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- Troelstra, A. S. See Diller, J., **86f:03098**
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- Aral, Toshiyasu An accessibility proof of ordinal diagrams in intuitionistic theories for iterated inductive definitions. **86a:03064**
- Beeson, M. ★ Foundations of constructive mathematics. **86k:03055**
- Boasi, Silvio Ideal principles and intuitionistic logic. (Italian. English summary) **86b:03083**
- Goodman, Nicolas D. A genuinely intensional set theory. **86h:03097b**
- Lifschits, Vladimir Calculable natural numbers. **86m:03093**
- Markov, Andrei Andreevich (with Nagornyi, N. M.) ★ Теория алгоритмов. (Russian) [The theory of algorithms] **86k:03027**
- Martin-Löf, Per ★ Intuitionistic type theory. **86j:03005**
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- (Sambin, Giovanni) See Martin-Löf, Per, **86j:03005**
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- Stedrov, A. Forcing and classifying topoi. **86d:03067**
- Vakarelov, Dimal't'r An application of the Rieger-Nishimura formulas to the intuitionistic modal logics. (Not in MR)
- Wojtylak, Piotr A recursive theory for the $\{\neg, \wedge, \vee, \rightarrow, \circ\}$ fragment of intuitionistic logic. **86h:03045**

03F55 Intuitionistic mathematics

- Friedrich, Wolfgang Spielquantorinterpretation unstetiger Funktionale der höheren Analysis. [Game quantifier interpretation of discontinuous functionals of higher analysis] **86c:03053**
- Goodman, Nicolas D. Replacement and collection in intuitionistic set theory. **86i:03075**
- van der Hoeven, Gerrit (with Moerdijk, Ieke) Sheaf models for choice sequences. **86m:03091**
- Kashapova, F. R. Determination of classes of constructively derivable theorems in a many-sorted intuitionistic set theory equivalent to a second-order arithmetic. (Russian) **86d:03055**
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- McCarthy, Charles Information systems, continuity and realizability. (See **86a:68004**)
- Moerdijk, Ieke Heine-Borel does not imply the fan theorem. **86h:03106**
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- Rabinowicz, Włodzisław Intuitionistic truth. **86g:03102**
- Scowcroft, Philip The real-algebraic structure of Scott's model of intuitionistic analysis. **86f:03101**
- Troelstra, A. S. Choice sequences and informal rigour. **86g:03103**

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- Beeson, M. (with Stedrov, A.) Church's thesis, continuity, and set theory. **86f:03097**
- ★ Foundations of constructive mathematics. **86k:03055**
- Burgess, John P. Dummett's case for intuitionism. **86a:03002**
- Delsell, Charles N. A continuous, constructive solution to Hilbert's 17th problem. **86e:12003**
- Diller, J. (with Troelstra, A. S.) Realizability and intuitionistic logic. **86f:03098**
- Fourman, Michael P. Continuous truth. I. Nonconstructive objects. **86b:03084**
- Grayson, R. J. Heyting-valued semantics. **86f:03099**
- Harris, John Henry What's so logical about the "logical" axioms? **86a:03003**
- van der Hoeven, Gerrit (with Moerdijk, Ieke) Constructing choice sequences from lawless sequences of neighbourhood functions. **86f:03100**
- Levin, Leonid A. Randomness conservation inequalities: information and independence in mathematical theories. **86h:68081**
- Martin-Löf, Per ★ Intuitionistic type theory. **86j:03005**
- Constructive mathematics and computer programming. **86e:03051**
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- Read, Stephen (with Wright, Crispin) Hairier than Putnam thought. **86k:03002**
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Schroeder-Heister, Peter Generalized rules for quantifiers and the completeness of the intuitionistic operators $\&, \vee, \supset, \wedge, \vee, \exists$. **86k:03053b**

A natural extension of natural deduction. **86k:03053a**

Seely, R. A. G. Locally Cartesian closed categories and type theory. **86b:18008**

Takeuti, Gaisi (with Titani, Satoko) Intuitionistic fuzzy logic and intuitionistic fuzzy set theory. **86f:03043**

Titani, Satoko See Takeuti, Gaisi, **86f:03043**

Troelstra, A. S. See Diller, J., **86f:03098**

Uesu, T. An axiomatization of the apartness fragment of the theory DLO^+ of dense linear order. **86h:03104**

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03F60 Recursive analysis

- Hauck, Jürgen Eine neue Definition berechenbarer reeller Funktionen. [A new definition of computable real functions] **86c:03053**
- Kreits, Christoph (with Weihrauch, Klaus) A unified approach to constructive and recursive analysis. **86m:03092**
- Kushner, B. A. Differentiability and uniform continuity of constructive functions. (Russian) **86g:03104**
- Pour-El, Marian Boykan (with Richards, Ian) LP -computability in recursive analysis. **86f:03102**
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- Beeson, M. ★ Foundations of constructive mathematics. **86k:03055**
- Ko, Ker-I Reducibilities on real numbers. **86k:03035**
- Simpson, Stephen G. Which set existence axioms are needed to prove the Cauchy/Peano theorem for ordinary differential equations? **86a:03066**

03F65 Other constructive mathematics [See also 46R05.]

- Beeson, M. ★ Foundations of constructive mathematics. **86k:03055**
- Collins, William J. (with Young, Paul) Discontinuities of provably correct operators on the provably recursive real numbers. **86d:03056**
- Feferman, Solomon Intensionality in mathematics. **86g:03105**
- Hauck, Jürgen Zur Wellengleichung mit konstruktiven Randbedingungen. [On the wave equation with constructive boundary conditions] **86k:03056**
- Kushner, B. A. ★ Lectures on constructive mathematical analysis. **86a:03067**
- (Leifman, Lev J.) See Kushner, B. A., **86a:03067**
- Lifschits, Vladimir Calculable natural numbers. **86m:03093**
- Manukyan, S. N. The Dirichlet problem in constructive analysis. (Russian. Armenian summary) **86i:03076**
- (Mendelson, Elliott) See Kushner, B. A., **86a:03067**
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- A definable interpretation of metric spaces. **86e:03078**
- Young, Paul See Collins, William J., **86d:03056**

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- Bridges, Douglas (with Mines, Ray) What is constructive mathematics? **86h:03005**
- Operator ranges, integrable sets, and the functional calculus. **86i:47020**
- Delsell, Charles N. Case distinctions are necessary for representing polynomials as sums of squares. **86i:11015**
- Gorgi, Ford Vagris (with Sahyoun, A. H.) Transformability of the formulas of the languages of Markov L_N, L_ω into formulas of the language Y_{A2} . **86c:03022**
- (with Sahyoun, A. H.) Mutual transformability of the formulas of the languages of Markov $L_{N,N}$ and $Y_{A_{N1}}$. **86c:03023**
- Jockusch, Carl G., Jr. (with Kalantari, Iraj) Recursively enumerable sets and van der Waerden's theorem on arithmetic progressions. **86d:03045**
- Julian, William ε -continuity and monotone operations. **86d:46075**
- Kalantari, Iraj See Jockusch, Carl G., Jr., **86d:03045**
- Kreits, Christoph (with Weihrauch, Klaus) A unified approach to constructive and recursive analysis. **86m:03092**
- Liu, Shih Ch'ao A proof-theoretic approach to nonstandard analysis (continued). **86i:03087**
- Mines, Ray See Bridges, Douglas, **86h:03005**
- Nordström, Bengt (with Smith, Jan) Propositions and specifications of programs in Martin-Löf's type theory. **86b:03033**
- Rosenstein, Joseph G. Recursive linear orderings. (French summary) **86d:06002**
- Sahyoun, A. H. See Gorgi, Ford Vagris, **86c:03022** and **86c:03023**
- Seidenberg, A. Survey of constructions in Noetherian rings. **86g:13016**
- Smith, Jan See Nordström, Bengt, **86b:03033**
- (Tonietti, Tito) See Weyl, Hermann, **86m:01046**
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- Weyl, Hermann Axiomatic versus constructive procedures in mathematics. **86m:01046**

03F99 None of the above, but in this section

secondary classifications (03F99)

- Almukdad, Ahmad (with Nelson, David) Constructible falsity and inexact predicates. **86c:03020**
- Bunder, M. W. A weak absolute consistency proof for some systems of illative combinatory logic. **86b:03021**
- Feferman, Solomon Working foundations. **86h:03001**

- Girard, Jean-Yves Introduction to Π_1^1 -logic. 86m:03089
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 Sikid, Z. Multiple forms of Gentzen's rules and some intermediate logics. 86a:03024

03Gxx Algebraic logic

03G05 Boolean algebras [See also 06Exx.]

- Andreev, A. E. On the problem of minimization of disjunctive normal forms. (Russian) 86f:03103
 Bogdanov, A. E. Unsolvability of the problem of minimization of Boolean functions in a class of local algorithms. (Russian) 86m:03094
 Bonnet, Robert On homomorphism types of superatomic interval Boolean algebras. 86j:03059
 Crociani, Carla (with Moscucci, Manuela) An algebraic translation of the concept of independence in logic. (Italian. English summary) 86i:03079
 Frankiewicz, R. Some remarks on embeddings of Boolean algebras. 86h:03106
 Goltz, Hans-Joachim The Boolean sentence algebra of the theory of linear ordering is atomic with respect to logics with a Malits quantifier. 86i:03060
 Karakhanyan, L. M. (with Sapozhenko, A. A.) Estimates for parameters of DNFs of not everywhere defined (partial) functions of the algebra of logic. (Russian) 86j:03060
 Korshunov, A. D. Complexity of shortest disjunctive normal forms of random Boolean functions. (Russian) 86h:03109
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- Andreev, A. E. The number of maximum intervals. (Russian) 86m:04049
 Aslanaki, M. See Chimev, Kiril N., 86m:06026
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Sari, Tewfik See Callot, J.-L., (86b:93046)

Sims, Brailley ★ "Ultra"-techniques in Banach space theory. 86h:46032

Takeuchi, Yu Nonstandard functions and distribution theory. (Spanish. English summary) 86c:46045

Wolff, Manfred P. H. Spectral theory of group representations and their nonstandard hull. 86e:46046

Xu, Li Zhi Generalized Möbius-Rota inversion theory associated with nonstandard analysis. (Chinese summary) 86b:05010

Živaljević, Boško See Miller, Harry I., 86e:60025

Živaljević, Rade The notions of w -net and Y -compact space viewed under infinitesimal microscope. 86a:54059

Two examples of Q -topologies. 86c:54053

03H10 Other applications of infinitesimal analysis

Ferro, Ruggero A note on the notion of "much bigger". (Italian. English summary) 86b:03087

secondary classifications (03H10)

Albeverio, S. (with Fenstad, Jens-Erik; Høegh-Krohn, R.; Karwowski, Witold; Lindström, Tom) Perturbations of the Laplacian supported by null sets, with applications to polymer measures and quantum fields. 86f:81030

Emmons, David W. Existence of Lindahl equilibria in measure theoretic economies without ordered preferences. 86d:90018

Fenstad, Jens-Erik See Albeverio, S. et al., 86f:81030

Fittler, Robert Some nonstandard quantum electrodynamics. 86d:81103

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Karwowski, Witold See Albeverio, S. et al., 86f:81030

Kayunov, O. N. Nonstandard solutions of equations of mathematical physics. (Russian) 86d:35010

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Rader, C. See Lobry, C., **86a:03018**

Schmidt, Hans-Jürgen On static spherical symmetric solutions of the Bach-Einstein gravitational field equations. (German summary) **86k:83048**

Wakita, Hitoshi Mathematical framework of quantum electrodynamics. **86b:81145a**
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Wiersbicki, Ewaryst On the formation of internal constraints by the technique of nonstandard analysis. (Russian summary) **86i:73003c**

See also Nobis, Krzysztof et al., **86i:73003a**

Wodniak, Czesław See Nobis, Krzysztof et al., **86i:73003a**

03H15 Nonstandard models of arithmetic [See also 11U10, 12L15, 13L05.]

Adamowicz, Zofia (with Morales-Luna, Guillermo) A recursive model for arithmetic with weak induction. **86d:03058**

Ceizmas, László (with Paris, J. B.) A property of 2-sorted Peano models and program verification. **86j:03066**

Grilliot, Thomas J. Disturbing arithmetic. **86m:03100**

Henson, C. Ward (with Kaufmann, Matt; Keisler, H. Jerome) The strength of nonstandard methods in arithmetic. **86h:03115**

Kaufmann, Matt See Henson, C. Ward et al., **86h:03115**

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Kirby, L. A. S. Ultrafilters and types on models of arithmetic. **86f:03107**

Kossak, Roman $L_{\omega_1\omega_1}$ -elementary equivalence of ω_1 -like models of PA. **86f:03108**

A note on satisfaction classes. **86c:03055**

Morales-Luna, Guillermo See Adamowicz, Zofia, **86d:03058**

Murawski, Roman Trace expansions of initial segments. **86g:03111**

Negri, Maurizio An application of recursive saturation. (Italian summary) **86f:03109**

Paris, J. B. See Ceizmas, László, **86j:03066**

secondary classifications (03H15)

Kotlarski, Henryk On elementary cuts in recursively saturated models of Peano arithmetic. **86f:03068**

Mijačević, Žarko On Σ_1^1 -extensions of ω . **86f:03057**

Murawski, Roman A contribution to nonstandard teratology. **86h:03067**

Paris, J. B. On the structure of models of bounded E_1 -induction. (Czech. English and Russian summaries) **86c:03036**

Smoryński, C. Lectures on nonstandard models of arithmetic. **86c:03035**

Szabo, M. E. Variable truth. **86c:03030**

03H20 Other nonstandard models [See also 54J05.]

Liu, Shih Ch'ao A proof-theoretic approach to nonstandard analysis (continued). **86i:03087**

Lyubetskii, V. A. Some algebraic questions of nonstandard analysis. (Russian) **86c:03063**

Richter, M. M. Some aspects of nonstandard methods in general algebra. **86m:03101**

secondary classifications (03H20)

Buff, Hans Walter ω -Konservativität der Nonstandardmengenlehre von Nelson bezüglich ZF + Kompaktheitsatz. [ω -conservativity of Nelson's nonstandard set theory with respect to ZF + the compactness theorem] **86a:03059**

Gonshor, Harry Remarks on the Dedekind completion of a nonstandard model of the reals. **86j:03065**

Shah, K. Tahiri Breakdown of predictability: an investigation into the nature of singularities. (See **86d:81003**)

03H99 None of the above, but in this section

secondary classifications (03H99)

Bloch, Ethan D. Simplexwise linear near-embeddings of a 2-disk into \mathbb{R}^2 . **86h:57010a**

Strictly convex simplexwise linear embeddings of a 2-disk. **86h:57010b**

Meyer, Robert K. (with Mortensen, Chris) Inconsistent models for relevant arithmetics. **86c:03021**

Mortensen, Chris See Meyer, Robert K., **86c:03021**

04-XX SET THEORY

04-01 Elementary exposition; textbooks

Friedrichsdorf, Ulf (with Prestel, A.) ★ Mengenlehre für den Mathematiker. (German) [Set theory for the mathematician] **86m:04001**

Prestel, A. See Friedrichsdorf, Ulf, **86m:04001**

secondary classifications (04-01)

Aleksandrov, P. S. ★ Einführung in die Mengenlehre und in die allgemeine Topologie. (German) [Introduction to set theory and to general topology] **86f:54001**

(Antelmann, Horst) See Aleksandrov, P. S., **86f:54001**

Brănzei, Dan See Miron, Radu, **86e:51001**

Miron, Radu (with Brănzei, Dan) ★ Fundamentele aritmeticii și geometriei. (Romanian) [The foundations of arithmetic and geometry] **86e:51001**

(Peschel, M.) See Aleksandrov, P. S., **86f:54001**

(Richter, Wolfgang) See Aleksandrov, P. S., **86f:54001**

04-02 Advanced exposition (research surveys, monographs, etc.)

secondary classifications (04-02)

Weiss, William Versions of Martin's axiom. **86h:03088**

04-03 Historical (must also be assigned at least one classification number from Section 01)

Mañka, Roman (with Wojciechowska, Agnieszka) Two theorems of Cantor. (Polish) **86m:04002**

Wojciechowska, Agnieszka See Mañka, Roman, **86m:04002**

secondary classifications (04-03)

Adamowicz, Zofia Wacław Sierpiński's contribution to general set theory. (Polish) **86i:01054b**

(Cantor, Georg) See Dugac, Pierre, **86c:01020**

(Dedekind, R.) See Gana, Francesco, **86k:01028**

Dugac, Pierre Georg Cantor et Henri Poincaré. [Georg Cantor and Henri Poincaré] **86c:01020**

Gana, Francesco Peirce and Dedekind: the definition of finite sets. (Italian. English, French and German summaries) **86k:01028**

Hallett, Michael ★ Cantorian set theory and limitation of size. **86c:03003**

(Lusin, N. N.) See Medvedev, F. A., **86d:01020**

Medvedev, F. A. Letters of C. de la Vallée-Poussin to N. N. Luzin. (Russian) **86d:01020**

Moore, Gregory Lebesgue's measure problem and Zermelo's axiom of choice: the mathematical effects of a philosophical dispute. **86c:01044**

(Peirce, C. S.) See Gana, Francesco, **86k:01028**

(Poincaré, Henri) See Dugac, Pierre, **86c:01020**

Sedivý, Jaroslav One hundred years from the publication of the first Czech treatise on set theory. (Czech) **86f:01023**

(Sierpiński, Wacław) See Adamowicz, Zofia, **86i:01054b**

(de la Vallée-Poussin, Charles) See Medvedev, F. A., **86d:01020**

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Sierpiński, Wacław See Adamowicz, Zofia, **86i:01054b**

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Cantor, Georg-Poincaré, Henri See Dugac, Pierre, **86c:01020**

de la Vallée-Poussin, Charles-Lusin, N. N. See Medvedev, F. A., **86d:01020**

04A05 Relations, functions [See also 08A02.]

Bouchet, A. Codages et dimensions de relations binaires. (English summary) [Codings and dimensions of binary relations] **86i:04001**

Frailas, Roland L'intervalle en théorie des relations; ses généralisations; filtre intervallaire et clôture d'une relation. (English summary) [The interval in relation theory; its generalizations; interval filter and closure of a relation] **86i:04002**

Kudo, Tatsuji On normal relations. **86k:04001**

Moses, Yoram (with Noy, Amos) On the encoding of relations by graphs. **86i:04003**

Novák, Vítězslav On some minimal problem. **86h:04001a**

Operations on cyclically ordered sets. **86h:04001b**

Noy, Amos See Moses, Yoram, **86i:04003**

Pickert, Günter Relationen mit Maximumexistenz nur für die nichtleeren echten Teilmengen ihres Feldes. [Relations with maximum existence only for the nonempty proper subsets of their field] **86c:04001**

Sholomov, L. A. Complexity of representation of choice functions as compositions. Asymptotic estimates of complexity characteristics. **86f:04001**

Complexity of representation-of-choice functions as compositions. II. Interdependence of implementation parameters. (Russian. English summary) **86m:04003**

Complexity of realization of binary relations by means of set-theoretic operations over linear order relations. (Russian) **86c:04001a**

Complexity of realization of choice functions by a system of partial order relations. (Russian) **86c:04001b**

secondary classifications (04A05)

Chimsev, Kiril N. Maximally separable sets of arguments of functions. (Russian. English summary) **86k:06003**

Duquenne, V. (with Monjardet, B.) Relations binaires entre partitions d'un ensemble fini. [Binary relations between partitions of a finite set] **86b:05009**

Grieder, Alfons On the generalised converse in relational logic. **86j:03027**

Janowitz, M. F. On the semilattice of weak orders of a set. **86d:06010**

Jónsson, Bjarni Maximal algebras of binary relations. **86f:06007**

Klimes, Jiří Fixed point characterization of completeness on lattices for relatively isotone mappings. **86m:06004**

Li, Bo Yu See Wang, Shang Zhi, **86a:06005a** and **86a:06005b**

Lolli, Gabriele The historic development of the logic of mathematics: the case of the axiom of choice. (Italian) **86i:03002**

Monjardet, B. See Duquenne, V., **86b:05009**

Neumann, O. On the definition of ordered n -tuples. **86d:03048**

Radtke, Sabine Die Anzahl aller möglichen Halbordnungsrelationen auf einer maximal sechselementigen Menge. [The number of all possible partial-order relations on a maximally six-element set] **86c:06020**

Reischer, Corina (with Simovici, Dan A.) Iterative roots of permutations of finite sets. **86d:05006**

Schein, Boris M. Semigroups of constant maps. **86i:20091**

Sečelja, Branimir (with Ušan, Janes) One connection between binary and $(n+1)$ -ary equivalence relations on finite sets. (Serbo-Croatian summary) **86i:06009**

See also Ušan, Janes, **86m:08001**

Simovici, Dan A. See Reischer, Corina, **86d:05006**

Skilton, Donald K. Imbedding posets in the integers. **86b:06002**

Šlapal, Josef Representative properties of the quasiordered set $F(\alpha, M)$. **86d:06006**

Sushchanskii, V. I. See Vyshenskii, V. A., 86j:20005a

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See also Šešelja, Branimir, 86i:06009

Viktorenkov, V. E. Random permutations on a set with a binary relation. (Russian) 86a:00016

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Wang, Shang Zhi (with Li, Bo Yu) Minimal cofinal subsets of directed quasiordered sets. (Chinese. English summary) 86a:06005b

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04A10 Transfinite numbers

Alling, Norman L. Conway's field of surreal numbers. 86f:04002

Hickman, John Homogeneous forms in two ordinal variables. 86g:04001

On n -place strictly monotonic functions. 86i:04004

Pérez-Jiménez, Mario de J. Generalizations of the transfinite recursion theorem. (Spanish. English summary) (See 86h:0009b)

secondary classifications (04A10)

Milner, Eric C. Recent results on the cofinality of ordered sets. (French summary) 86c:06006

Pouset, Maurice (with Zaguia, Nejib) Ordered sets with no chains of ideals of a given type. 86c:06003

Truss, J. K. Cancellation laws for surjective cardinals. 86a:03050

Wojciechowski, Jerzy Classes of transfinite sequences accepted by nondeterministic finite automata. 86i:89033

Zaguia, Nejib Chaînes d'idéaux et de sections initiales d'un ensemble ordonné. [Chains of ideals and of initial segments of an ordered set] 86c:06014

See also Pouset, Maurice, 86c:06003

04A15 Descriptive set theory; Borel classifications, Suslin schemes, etc.

[See also 03E15, 28A05, 54H05.]

Cichoń, J. (with Kamburelis, A.; Pawlikowski, Janusz) On dense subsets of the measure algebra. 86j:04001

Kamburelis, A. See Cichoń, J. et al., 86j:04001

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Voigt, B. Extensions of the Graham-Leeb-Rothschild theorem. 86m:04004

secondary classifications (04A15)

Aniasczyk, Bohdan (with Frankiewicz, R.) On minimal generators of σ -fields. 86c:54037

Becker, Howard (with Kechris, Alexander S.) Sets of ordinals constructible from trees and the third Victoria Delfino problem. 86a:03051

Burgess, John P. From preference to utility: a problem of descriptive set theory. 86j:03051

Censer, Douglas (with Mauldin, R. Daniel) On the Borel class of the derived set operator. II. (French summary) 86a:54046

Monotone reducibility and the family of infinite sets. 86a:03052

Debs, Gabriel Paramétrisations boréliennes. (English summary) [Borel parametrizations] 86i:28007

Frankiewicz, R. See Aniasczyk, Bohdan, 86c:54037

Hansell, Roger W. (with Jayne, J. E.; Rogers, C. A.) Corrigenda et addenda: "K-analytic sets" [Mathematika 30 (1983), no. 2, 189–221; MR 85b:54059]. 86g:54056

Jasiński, Jakub On the combinatorial properties of Blackwell spaces. 86d:28002

Jayne, J. E. See Hansell, Roger W. et al., 86g:54056

Kanovei, V. G. Some problems of descriptive set theory and definability in the theory of types. (Russian) 86b:03060

Kechris, Alexander S. See Becker, Howard, 86a:03051

Kharasishvili, A. B. ★ Топологические аспекты теории меры. (Russian) [Topological aspects of measure theory] 86c:28001

Louveau, Alain (with Saint-Raymond, Jean) Caractérisation de la classe de Baire des boréliens par des jeux fermés. (English summary) [Characterizing the Baire class of Borel sets by closed games] 86h:03064

Maltra, A. (with Srivatsa, V. V.) Parametrizations of Borel sets with large sections. 86k:54031

Mauldin, R. Daniel See Censer, Douglas, 86a:54046

Miller, Arnold W. Special subsets of the real line. 86i:54037

Pawlikowski, Janusz Powers of transitive bases of measure and category. 86k:03041

Pełc, Andrzej Measure theory from the set theory point of view. (Polish) 86f:28014

Piśkiewicz, Leszek A remark about separation of K -analytic sets in the product spaces. 86g:54057

Pol, Roman On Borel-measurable collections of countable unions of finite-dimensional compacta. (Russian summary) 86f:54005

Some remarks about measurable parametrizations. 86j:28006

Rogers, C. A. See Hansell, Roger W. et al., 86g:54056

Saint-Raymond, Jean See Louveau, Alain, 86h:03064

Srebrny, Marian Measurable selectors of PCA multifunctions with applications. 86k:03042

Srivatsa, V. V. See Maltra, A., 86k:54031

Wood, R. J. Stability of the Souslin operation. 86f:06008

04A20 Combinatorial [See also 05A05.]; filters

Aharoni, R. (with Nash-Williams, C. St. J. A.; Shelah, S.) Marriage in infinite societies. 86h:04002

Balanda, Kevin P. Families of partial representing sets. 86d:04001

Almost disjoint families of representing sets. 86j:04002

Galvin, F. (with Prikrý, Karel; Wolfson, K.) Ein Zerlegungssatz für $P(\kappa)$. (English summary) [A partition theorem for $P(\kappa)$] 86i:04005

Grantham, S. B. Galvin's "racing pawns" game and a well-ordering of trees. 86d:04002

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Just, Winfried (with Krawczyk, Adam) On certain Boolean algebras $\mathcal{P}(\omega)/I$. 86f:04003

Krawczyk, Adam See Just, Winfried, 86f:04003

Milner, Eric C. Lectures on the marriage theorem of Aharoni, Nash-Williams and Shelah. 86k:04002

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Nagy, Zs. See Hajnal, A., 86b:04001

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Pouset, Maurice See Milner, Eric C., 86g:04002

Prikrý, Karel See Galvin, F. et al., 86i:04005

Qi, Jin Cheng See Yang, Shou Lian, 86k:04003

Shelah, S. See Aharoni, R. et al., 86h:04002

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Velleman, Dan ω -morasses, and a weak form of Martin's axiom provable in ZFC. 86c:04003

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Yang, Shou Lian (with Qi, Jin Cheng) Some properties of the Rudin-Keisler order relative to the minimal elements of $\beta\omega \setminus \omega$. (Chinese) 86k:04003

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Anderson, Ian Counting common representatives and symmetric chain decompositions. 86i:06003

Augenstein, B. W. Hadron physics and transfinite set theory. 86i:81127

Baldwin, Stewart The consistency strength of certain stationary subsets of $\mathcal{P}_{\kappa}\lambda$. 86c:03043

Bekkali, Mohamed (with Bonnet, Robert) On Fodor's theorem: a topological version. (French summary) 86h:03063

Bonnet, Robert See Bekkali, Mohamed, 86h:03063

Dess, Michel (with Frankl, P.) Erdős-Ko-Rado theorem—22 years later. 86a:05004

Donder, Hans-Dieter Families of almost disjoint functions. 86a:03047

Dow, Alan Good and OK ultrafilters. 86f:54044

Frailé, Roland L'intervalle en théorie des relations; ses généralisations; filtre intervalaire et clôture d'une relation. (English summary) [The interval in relation theory; its generalizations; interval filter and closure of a relation] 86i:04002

Frankl, P. See Dess, Michel, 86a:05004

Gyárfás, A. (with Lehel, J.; Tuza, Zs.) The structure of rectangle families dividing the plane into maximum number of atoms. 86g:05025

Hansell, Roger W. Generalized quotient maps that are inductively index- σ -discrete. 86j:54023

Henle, J. M. (with Kleinberg, E. M.; Watro, R. J.) On the ultrafilters and ultrapowers of strong partition cardinals. 86g:03076

Hodel, R. Cardinal functions. I. 86j:54007

Kanamori, Aki (with Taylor, Alan D.) Negative partition relations for ultrafilters on uncountable cardinals. 86f:03074

Kharasishvili, A. B. Independent families and universal colored graphs. (Russian. English and Georgian summaries) 86i:05060

Kleinberg, E. M. See Henle, J. M. et al., 86g:03076

Lehel, J. See Gyárfás, A. et al., 86g:05025

Negrepontis, Stelios Banach spaces and topology. 86i:46018

Nešetřil, Jaroslav (with Rödl, Vojtěch) Two remarks on Ramsey's theorem. 86k:05008

Plońska, J. Graphs of partial partitions. 86j:05020

Rödl, Vojtěch See Nešetřil, Jaroslav, 86k:05008

Talano, Rodolfo On the structure of generalized P -points. 86d:03051

Ultrafilters, classes of ideals and measure theory. 86d:28013

Taylor, Alan D. See Kanamori, Aki, 86f:03074

Todorćević, Stevo Trees and linearly ordered sets. 86h:54040

Tuza, Zs. See Gyárfás, A. et al., 86g:05025

Voigt, B. Extensions of the Graham-Leeb-Rothschild theorem. 86m:04004

Watro, R. J. See Henle, J. M. et al., 86g:03076

Zelberger, Doron Garsia and Milne's bijective proof of the inclusion-exclusion principle. 86b:05008b

04A25 Axiom of choice and related propositions (Zorn's lemma, etc.)

[See also 03E25.]

Blass, Andreas Existence of bases implies the axiom of choice. 86a:04001

Brunner, Norbert Realisierung und Auswahlaxiom. (English summary) [Realization and axiom of choice] 86m:04005

Howard, Paul E. Subgroups of a free group and the axiom of choice. 86m:04006

Smítal, J. On a problem of Aczél and Erdős concerning Hamel bases. 86c:04004

secondary classifications (04A25)

Banaschewski, B. (with Harting, Roswitha) Lattice aspects of radical ideals and choice principles. 86g:16047

Bell, J. L. On the strength of the Sikorski extension theorem for Boolean algebras. 86b:03061

Brunner, Norbert Amorphe Potenzen kompakter Räume. [Amorphous powers of compact spaces] 86k:03043

- Wellordering theorems in topology. 86m:54043
 Harting, Roswitha. *See Banaschewski, B.* 86g:16047
 Howard, Paul E. Binary consistent choice on pairs and a generalization of König's infinity lemma. 86d:03047
 Kanovskii, V. G. *★ Аксиома выбора и аксиома детерминированности.* (Russian) [The axiom of choice and the axiom of determinateness] 86h:03085
 Moore, Gregory Lebesgue's measure problem and Zermelo's axiom of choice: the mathematical effects of a philosophical dispute. 86c:01044
 Nešetřil, Jaroslav (with Rödl, Vojtěch) Two remarks on Ramsey's theorem. 86k:05008
 Qi, Zheng The axiom of choice and the continuum hypothesis. (Chinese) 86f:03083
 Rödl, Vojtěch *See Nešetřil, Jaroslav* 86k:06008

04A30 Continuum hypothesis, generalized continuum hypothesis
 [See also 03E50, 54A25.]

secondary classifications (04A30)

- Nagrepontis, Stellos Banach spaces and topology. 86i:46018
 Qi, Zheng The axiom of choice and the continuum hypothesis. (Chinese) 86f:03083

04A99 Miscellaneous topics

- Evers, J. J. M. (with van Maaren, H.) Duality principles in mathematics and their relations to conjugate functions. 86m:04007
 Garay de Pablo, José Real topological arithmetic. (Spanish) 86h:04004
 van Maaren, H. *See Evers, J. J. M.* 86m:04007
 Żakowski, Wojciech On new characterization of regular configurations in the theory of conflict situations. 86d:04003
 Zhu, Xu Ding Pansystem simulation conservation of equivalence relations. (Chinese. English summary) 86k:04004

secondary classifications (04A99)

- Cocchiarella, Nino B. Frege's double correlation thesis and Quine's set theories NF and ML. 86h:03096
 Dubola, D. W. General numeration. I. Gauged schemes. 86m:05008a
 General numeration. II. Division schemes. 86m:05008b
 Grünbaum, Branko The construction of Venn diagrams. 86i:03003
 Turlea, Marin Axiomatic foundations of set theory contested by the Skolem paradox. (Romanian) (See 86h:03004)
 Winkler, Peter M. Venn diagrams: some observations and an open problem. 86h:06043

05-XX COMBINATORICS (For finite fields, see 11Tx.)

05-01 Elementary exposition; textbooks

- Andrássfal, Béla *★ Gráfelmélet.* (Hungarian) [Graph theory] 86a:05001
 Chartrand, G. *★ Introductory graph theory.* 86c:05001
 Klotzsek, Benno (with Lengat, Ulrich; Letsel, Eberhard; Schröter, Karin) *★ Kombinieren, parkettieren, färben.* (German) [Combining, tiling, coloring] 86m:05001
 Lengat, Ulrich *See Klotzsek, Benno et al.* 86m:05001
 Letsel, Eberhard *See Klotzsek, Benno et al.* 86m:05001
 Reichmelder, Philipp F. *★ The equivalence of some combinatorial matching theorems.* 86j:05001
 Schröter, Karin *See Klotzsek, Benno et al.* 86m:05001
 Thomassen, Carsten Graph theory—an introduction. (Danish. English summary) 86b:05001
 Tonchev, V. D. *★ Комбинаторни конфигурации.* (Bulgarian) [Combinatorial configurations] 86j:05002

secondary classifications (05-01)

- Aligner, Martin *★ Graphentheorie.* (German) [Graph theory] 86a:05043
 Korfhage, Robert R. *★ Discrete computational structures.* 86h:68001
 Lidl, Rudolf (with Pils, Günter) *★ Applied abstract algebra.* 86d:00002
 Pils, Günter *See Lidl, Rudolf* 86d:00002
 White, Arthur *★ Graphs, groups and surfaces.* 86d:05047

05-02 Advanced exposition (research surveys, monographs, etc.)

- Rijörner, Anders Combinatorics and topology. 86j:05003
 Erdős, Paul On some problems in graph theory, combinatorial analysis and combinatorial number theory. 86c:05001
 Jacobs, Konrad Ergodic theory and combinatorics. 86c:05002
 Jönger, Michael *★ Polyhedral combinatorics and the acyclic subdigraph problem.* 86m:05002
 Macdonald, I. G. *★ Симметрические функции и многочлены Холла.* (Russian) [Symmetric functions and Hall polynomials] 86k:05001
 Möhring, Rolf H. (with Radermacher, Franz J.) Substitution decomposition for discrete structures and connections with combinatorial optimization. 86i:05001
 Opencomb, W. E. On the intricacy of combinatorial construction problems. 86a:05002
 Radermacher, Franz J. *See Möhring, Rolf H.* 86i:05001
 Zelevinskii, A. V. *See Macdonald, I. G.* 86k:05001

secondary classifications (05-02)

- Boesch, F. (with Tindell, Ralph) Connectivity and symmetry in graphs. 86e:05060

- Fishburn, Peter C. *★ Interval orders and interval graphs.* 86m:06001
 Goldberg, Mark K. *★ The development of combinatorics in the USSR.* 86a:01041
 Columbic, Martin Charles Interval graphs and related topics. 86k:05095
 (Kierstead, H. A.) *See Goldberg, Mark K.* 86a:01041
 Stanley, Richard P. $GL(n, C)$ for combinatorialists. 86b:05004
 Tindell, Ralph *See Boesch, F.* 86e:05060

05-03 Historical (must also be assigned at least one classification number from Section 01)

secondary classifications (05-03)

- Andrews, George E. Euler's pentagonal number theorem. 86a:01016
 Biermann, Kurt-R. Zur Kombinatorik in der Antike. [On combinatorics in antiquity] 86c:01005
 (Euler, Leonhard) *See Andrews, George E.* 86a:01016
 Goldberg, Mark K. *★ The development of combinatorics in the USSR.* 86a:01041
 Hall, J. I. (with Palmer, E. M.; Robinson, R. W.) Redfield's lost paper in a modern context. 86g:01037d
 Harary, Frank (with Robinson, R. W.) The rediscovery of Redfield's papers. 86g:01037a
 Khomenko, N. P. (with Vivrot, T. M.) Euler and Kirchhoff—initiators of the main directions in graph theory. I. (Russian) 86h:01006
 (Kierstead, H. A.) *See Goldberg, Mark K.* 86a:01041
 Lloyd, E. Keith J. Howard Redfield: 1879-1944. 86g:01037b
 Lu, Jia Xi On the problems of the existence of large sets of Steiner triple systems and RBIBs: the contributions of the Chinese combinatorialist Jia Xi Lü. (Chinese) 86h:01079
 Mal'ikh, A. E. Euler's creation of the combinatorial theory of Latin squares. (Russian) 86d:01011
 Palmer, E. M. *See Hall, J. I. et al.* 86g:01037d
 Rashed, Roehdi Materials for the study of the history of amicable numbers and combinatorial analysis. (Arabic. French summary) 86k:01012
 (Redfield, J. Howard) *See Harary, Frank* 86g:01037a and Lloyd, E. Keith, 86g:01037b
 Robinson, R. W. *See Harary, Frank* 86g:01037a and Hall, J. I. et al., 86g:01037d
 Vivrot, T. M. *See Khomenko, N. P.* 86h:01006
 Wilson, Robin J. Analysis situs. 86m:01004
 Biography:
 Redfield, J. Howard *See Lloyd, E. Keith* 86g:01037b

05-04 Explicit machine computation and programs (not the theory of computation or programming)

- Balaban, Alexandru T. (with Filip, Petru; Balaban, Teodor-Silviu) Computer program for finding all possible cycles in graphs. (Not in MR)
 Balaban, Teodor-Silviu *See Balaban, Alexandru T. et al.* (Not in MR)
 de Bruin, R. Some software for graph theoretical problems. (See 86m:65006a)
 Cockayne, E. J. (with Peters, D. B.) MFST82: a program for minimum full Steiner trees in the plane. 86g:05001
 Eratigneev, V. A. A local algorithm for isolating blocks in a graph. (Russian) 86h:05001
 Filip, Petru *See Balaban, Alexandru T. et al.* (Not in MR)
 Leon, Jeffrey S. Computing automorphism groups of combinatorial objects. 86j:05004
 Peters, D. B. *See Cockayne, E. J.* 86g:05001
 Rosenstiel, P. (with Tarjan, Robert Endre) Gauss codes, planar Hamiltonian graphs, and stack-sortable permutations. 86c:05003
 Tarjan, Robert Endre *See Rosenstiel, P.* 86c:05003

secondary classifications (05-04)

- Brigham, Robert C. (with Dutton, Ronald D.) A compilation of relations between graph invariants. 86d:05105
 Brown, Edward K. (with Day, William H. E.) A computationally efficient approximation to the nearest neighbor interchange metric. (Not in MR)
 Chandrasekaran, R. (with Tamir, Arie) Polynomial testing of the query "is $a^b \geq c^d$?" with application to finding a minimal cost reliability ratio spanning tree. 86a:68077
 Chiba, Norihisa (with Yamanouchi, Tadashi; Nishizeki, Takao) Linear algorithms for convex drawings of planar graphs. 86k:05108
 (with Onoguchi, Kazunori; Nishizeki, Takao) Drawing plane graphs nicely. 86m:68116
 (with Nishizeki, Takao) Arboricity and subgraph listing algorithms. 86e:68047
 Chin, Francis *See Tam, Yung H.* 86c:68035
 Corneli, D. G. (with Perl, Yehoshua; Stewart, L. K.) A linear recognition algorithm for cographs. 86m:68117
 Cunningham-Grass, R. A. The absolute centre of a graph. 86b:05068
 Cvetković, Dragos M. (with Pevac, Irena) Discussing graph theory with a computer. III. Man-machine theorem proving. 86i:03012a
 Discussing graph theory with a computer. IV. Knowledge organization and examples of theorem proving. 86i:03012b
 See also Gutman, Ivan. 86k:05065
 Day, William H. E. *See Brown, Edward K.* (Not in MR)
 Dutton, Ronald D. *See Brigham, Robert C.* 86d:05105
 Farley, Arthur M. (with Proskurowski, Andrzej) Computing the maximum order of an open irredundant set in a tree. 86e:94039
 Gao, Hong Xun Two algorithms for M -sequences. 86e:94034
 Gilbert, John R. (with Hutchinson, Joan P.; Tarjan, Robert Endre) A separator theorem for graphs of bounded genus. 86h:68145
 Gutman, Ivan (with Cvetković, Dragos M.) Finding tricyclic graphs with a maximal number of matchings—another example of computer aided research in graph theory. 86k:05065
 Hutchinson, Joan P. *See Gilbert, John R. et al.* 86h:68145
 Karmakar, Sudhangshu B. An algorithm for finding a circuit of even length in a directed graph. 86a:05055

- Knop, J. V. (with Saymanaki, K.; Trinajstić, Nenad; Krivka, P.) Computer generation of all 1-factors for a class of graphs with all vertices of degree two or three. 86i:05110
- Kotov, V. M. See Kovalev, M. M., 86h:05074
- Kovalev, M. M. (with Kotov, V. M.) Analysis of algorithms for the construction of a Hamiltonian cycle of maximum weight. (Russian. English summary) 86h:05074
- Krivka, P. See Knop, J. V. et al., 86i:05110
- (Latouche, G.) See Probability theory and computer science, 86h:88005
- Linal, Nathan (with Saka, Michael) Searching order structures. 86g:88022
- (Louchard, G.) See Probability theory and computer science, 86h:88005
- Loukakis, E. Two algorithms for determining a minimum independent dominating set. 86c:88031
- Lüneburg, Heins Rekursive Erzeugung aller k -gliedrigen Partitionen einer endlichen Menge. [Recursive generation of all k -element partitions of a finite set] 86j:05019
- Ma, Shao Han The Steiner tree problem on graphs and a heuristic algorithm for it. (Chinese) (Not in MR)
- Mehlhorn, Kurt ★ Data structures and algorithms. 2. 86c:88002
- Midgley, D. (with Richardson, M. D.) A program for signal flow graphs. 86m:94055
- Nishiseki, Takao See Chiba, Norihisa, 86a:88047; 86k:05108 and 86m:88116
- Onoguchi, Kasunori See Chiba, Norihisa et al., 86m:88116
- Pachl, J. Finding pseudoperipheral nodes in graphs. 86a:88042
- Perl, Yoshua See Corneli, D. G. et al., 86m:88117
- Pevac, Irena See Cvjetković, Dragomir M., 86i:05012a
- Plassa, Barry L. On Hamiltonian cycles in cycle permutation graphs. 86d:05058
- Ponomarenko, I. N. A polynomial isomorphism algorithm for graphs not contractible to $K_{3,g}$. (Russian. English summary) 86d:88060
- Proskurowski, Andrzej See Farley, Arthur M., 86c:94039
- Reif, John Henry (with Scherlis, William L.) Deriving efficient graph algorithms. (See 86a:88004)
- Richardson, M. D. See Midgley, D., 86m:94055
- Sack, Jörg-R. See Strothotte, Thomas (Not in MR)
- Saka, Michael See Linal, Nathan, 86g:88022
- Scherlis, William L. See Reif, John Henry, (86a:88004)
- Sedgewick, Robert Mathematical analysis of combinatorial algorithms. (See 86h:88005)
- Smyth, W. F. Algorithms for the reduction of matrix bandwidth and profile. 86h:65059
- Stewart, L. K. See Corneli, D. G. et al., 86m:88117
- Strothotte, Thomas (with Sack, Jörg-R.) Heaps in heaps. (Not in MR)
- Szymanski, K. See Knop, J. V. et al., 86i:05110
- Tamir, Aris See Chandrasekaran, R., 86a:88077
- Tarjan, Robert Endre (with Yannakakis, Mihalis) Simple linear-time algorithms to test chordality of graphs, test acyclicity of hypergraphs, and selectively reduce acyclic hypergraphs. 86f:68017a
- (with Yannakakis, Mihalis) Addendum: "Simple linear-time algorithms to test chordality of graphs, test acyclicity of hypergraphs, and selectively reduce acyclic hypergraphs". 86f:68017b
- See also Gilbert, John R. et al., 86h:88145
- Trinajstić, Nenad See Knop, J. V. et al., 86i:05110
- Tsin, Yung H. (with Chin, Francis) Efficient parallel algorithms for a class of graph theoretic problems. 86c:88035
- Vishkin, Uri An optimal parallel connectivity algorithm. 86a:88045
- Williams, Morgan Howard A linear algorithm for colouring planar graphs with five colours. 86g:88069
- Yamanouchi, Tadaaki See Chiba, Norihisa et al., 86k:05108
- Yannakakis, Mihalis See Tarjan, Robert Endre, 86f:68017a and 86f:68017b
- Probability theory and computer science ★ Probability theory and computer science. 86h:88005
- 05-06 Proceedings, conferences, etc.
- (Alspach, Brian) See Cycles in graphs, 86j:05005
- (Anderson, Ian) See Surveys in combinatorics 1985, 86j:05007
- (Ausllo, G.) See Analysis and design of algorithms for combinatorial problems, 86f:05001
- (Beineke, Lowell W.) See Selected topics in graph theory, 86c:05002
- (Godall, C. D.) See Cycles in graphs, 86j:05005
- (Hoffman, Frederick) See Proceedings: Southeastern conference on combinatorics, graph theory and computing, 86c:05004a; 86c:05004b; 86c:05004c; Conference: Southeastern, combinatorics, graph theory and computing, 86m:05003a; Conference: Southeastern combinatorics, graph theory and computing, 86m:05003b and Conference: Southeastern, combinatorics, graph theory and computing, 86m:05003c
- (Hsu, D. F.) See Neofields and combinatorial designs, 86f:05003
- (Kotzig, Anton) See Theory and practice of combinatorics, 86f:05003
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- (Reid, K. B.) See Proceedings: Southeastern conference on combinatorics, graph theory and computing, 86c:05004a; 86c:05004b; 86c:05004c; Conference: Southeastern, combinatorics, graph theory and computing, 86m:05003a; Conference: Southeastern combinatorics, graph theory and computing, 86m:05003b and Conference: Southeastern, combinatorics, graph theory and computing, 86m:05003c
- (Rival, Ivan) See Graphs and order, 86j:05006
- (Rosa, Alexander) See Theory and practice of combinatorics, 86f:05003
- (Sabidussi, Gert) See Theory and practice of combinatorics, 86f:05003
- (Stanton, Ralph G.) See Proceedings: Southeastern conference on combinatorics, graph theory and computing, 86c:05004a; 86c:05004b; 86c:05004c; Conference: Southeastern, combinatorics, graph theory and computing, 86m:05003a; Conference:
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- (Turgeon, Jean M.) See Theory and practice of combinatorics, 86f:05003
- (Wilson, Robin J.) See Selected topics in graph theory, 86c:05002
- Analysis and design of algorithms for combinatorial problems ★ Analysis and design of algorithms for combinatorial problems. 86f:05001
- Banff, Alta. ★ Graphs and order. 86j:05006
- Baton Rouge, La. ★ Proceedings of the fifteenth Southeastern conference on combinatorics, graph theory and computing. 86c:05004a
- Birthday:
 - Kotzig, Anton ★ Theory and practice of combinatorics. 86f:05003
- Boca Raton, Fla. ★ Proceedings of the sixteenth Southeastern international conference on combinatorics, graph theory and computing. 86m:05003a
- Burnaby, B.C. ★ Cycles in graphs. 86j:05005
- Conference:
 - British combinatorial ★ Surveys in combinatorics 1985. 86j:05007
 - Southeastern, combinatorics, graph theory and computing ★ Proceedings of the fifteenth Southeastern conference on combinatorics, graph theory and computing. 86c:05004a
 - Cycles in graphs ★ Cycles in graphs. 86j:05005
 - Glasgow ★ Surveys in combinatorics 1985. 86j:05007
 - Graph theory and applications ★ Graph theory and applications. 86d:05001
 - Graphs and order ★ Graphs and order. 86j:05006
 - NATO Advanced Study Institute:
 - Graphs and order ★ Graphs and order. 86j:05006
 - Neofields and combinatorial designs ★ Neofields and combinatorial designs. 86f:05003
- Proceedings:
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 - Graph theory and applications ★ Graph theory and applications. 86d:05001
- Theory and practice of combinatorics ★ Theory and practice of combinatorics. 86f:05003
- Udine ★ Analysis and design of algorithms for combinatorial problems. 86f:05001
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- (Rosenfeld, Moshe) See Convexity and graph theory, 86g:52001
- (Zaks, Joseph) See Convexity and graph theory, 86g:52001
- Conference:
 - Convexity and graph theory ★ Convexity and graph theory. 86g:52001
- Convexity and graph theory ★ Convexity and graph theory. 86g:52001
- Graphs ★ Grafo. [Graphs]. 86j:06001
- Homogeneous subsets in graphs and hypergraphs and ordered sets ★ Partes homogéneas en grafos e hipergrafos y conjuntos ordenados. Parte I. [Homogeneous subsets in graphs and hypergraphs and ordered sets. Part I]. 86j:06002
- Jerusalem ★ Convexity and graph theory. 86g:52001
- Mar del Plata/La Plata ★ Partes homogéneas en grafos e hipergrafos y conjuntos ordenados. Parte I. [Homogeneous subsets in graphs and hypergraphs and ordered sets. Part I]. 86j:06002
- Seminar:
 - Homogeneous subsets in graphs and hypergraphs and ordered sets ★ Partes homogéneas en grafos e hipergrafos y conjuntos ordenados. Parte I. [Homogeneous subsets in graphs and hypergraphs and ordered sets. Part I]. 86j:06002
- 05Axx Classical combinatorial problems
- Schmidt, Frank W. See Simion, Rodica (Not in MR)
- Simion, Rodica (with Schmidt, Frank W.) Restricted permutations. (Not in MR)
- secondary classifications (05Axx)
- Bocor, F. F. See Chandon, J.-L. (Not in MR)
- Chandon, J.-L. (with Bocor, F. F.) Approximation d'une préordonnance par une partition. (English summary) [Approximating a partial ordering by a partition] (Not in MR)
- 05A05 Combinatorial choice problems (subsets, representatives, permutations)
- Abraham, J. (with Kotzig, Anton) Symmetric bases of additive permutations. 86a:05003a
- (with Kotzig, Anton) Additive permutations of an integer interval: symmetry and an estimate of their number. 86a:05003b
- Ahlswede, Rudolf (with El Gamal, Abbas; Pang, King F.) A two-family extremal problem in Hamming space. 86c:05005
- Alon, Noga (with Frankl, P.) The maximum number of disjoint pairs in a family of subsets. 86i:05002
- Anderson, Ian Counting common representatives and symmetric chain decompositions. 86i:05003

- Bang, Chang Mo (with Sharp, H. Jr.; Winkler, Peter M.) On coverings of a finite set: depth and subcovers. **86c:05006**
- Bender, Edward A. (with Zeilberger, Doron) Some asymptotic bijections. **86d:05002**
- Camerini, P. M. (with Maffioli, P.) Unlabelled partition systems: optimization and complexity. **86c:05007**
- Chung, F. R. K. (with Fishburn, Peter C.; Wei, V. K.-W.) Cross-monotone subsequences. **86m:05004**
- Clements, G. F. On uniqueness of maximal antichains of subsets of a multiset. **86h:05002**
- Cocan, Moise Un nouveau algorithme pour la solution du problème de la répartition simple. (Romanian summary) [A new algorithm for solving the simple distribution problem] **86c:05003**
- Daykin, David E. Antichains of subsets of a finite set. **86f:05004**
(with Frankl, P.) Extremal sets of subsets satisfying conditions induced by a graph. **86f:05005**
- Demetrovics, János (with Füredi, Zoltán; Katona, Gyula) Minimum matrix representation of closure operations. **86k:05002**
- Desa, Michel (with Frankl, P.) Erdős-Ko-Rado theorem—22 years later. **86a:05004**
- Dubois, D. W. General numeration. I. Gauged schemes. **86m:05008a**
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- El Gamal, Abbas See Ahlswede, Rudolf et al., **86c:05005**
- Engel, Konrad (with Kuszur, N. N.) An asymptotic formula for the maximum size of an h -family in products of partially ordered sets. **86c:05008**
- Fishburn, Peter C. See Chung, F. R. K. et al., **86f:05004**
- Fleming, D. I. See Francis, N. D., **86f:05004**
- Francis, N. D. (with Fleming, D. I.) Optimum allocation of places to students in a national university system. **86i:05004**
- Frankl, P. Families of finite sets with three intersections. **86d:05003**
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- Füredi, Zoltán An extremal problem concerning Kneser's conjecture. **86m:05005**
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- Goldberg, Charles H. (with West, Douglas B.) Bisection of circle colorings. **86c:05010**
- Golomb, Solomon W. The fifteen billiard balls—a case study in combinatorial problem solving. **86h:05003**
- Griggs, Jerrold R. The strict Sperner property. **86d:05004**
- Gronau, Hans-Dietrich O. F. Maximum nontrivial k -uniform set families in which no μ sets have an empty intersection. (German and Russian summaries) **86c:05011**
- Harper, L. H. Morphisms for the strong Sperner property of Stanley and Griggs. **86d:05005**
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- Kim, K. H. (with Roush, F. W.) On a problem of Turán. **86m:05007**
- Kotzig, Anton (with Turgeon, Jean M.) Additive sequences of permutations. **86j:05009**
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- Kuszur, N. N. See Engel, Konrad, **86c:05005**
- Luan, Ru Shu Some enumeration problems for sets of permutations. (Chinese) (Not in MR)
- Maffioli, P. See Camerini, P. M., **86c:05007**
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- Pang, King F. See Ahlswede, Rudolf et al., **86c:05005**
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- Quinn, Michael J. A note on two parallel algorithms to solve the stable marriage problem. **86k:05003**
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- Rosenstiehl, P. Planar permutations defined by two intersecting Jordan curves. **86f:05006**
- Roush, F. W. See Kim, K. H., **86m:05007**
- Sharp, H. Jr. See Bang, Chang Mo et al., **86c:05006**
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- Spencer, Joel H. Six standard deviations suffice. **86k:05004**
- Spoletini, Enrico Generation of permutations following Lehmer and Howell. **86h:05006**
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- Aharoni, R. (with Nash-Williams, C. St. J. A.; Shelah, S.) Marriage in infinite societies. **86h:04002**
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- Bernhardt, Chris Simple permutations with order a power of two. **86d:58092**
- Brown, Thomas Craig Common transversals for partitions of a finite set. **86c:05006**
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- Cerný, A. Tag sequences and substitutions. (See **86b:88005**)
- Chu, Wen Chang A remark on the problem of counting multiple runs and derangements. (Chinese) **86d:05009**
- Coelho, J. D. See Pabão, J. P. et al., **86g:05087**
- Colbourn, Charles J. (with Pulleyblank, William) Minimizing setups in ordered sets of fixed width. **86i:06001**
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- Eggleston, Roger B. (with Wallis, W. D.) Equidistant permutation sequences. **86h:05073**
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- Grünbaum, Branko The construction of Venn diagrams. **86i:03003**
- Gyárfás, A. (with Lehel, J.; Tuza, Zs.) The structure of rectangle families dividing the plane into maximum number of atoms. **86g:05025**
- Hall, J. I. (with van Lint, J. H.) Constant distance code pairs. **86h:94020**
- Howard, Paul E. Binary consistent choice on pairs and a generalization of König's infinity lemma. **86d:03047**
- Hwang, Frank K. (with Körner, J.; Wei, V. K.-W.) Selecting nonconsecutive balls arranged in many lines. **86b:05006**
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- Lehel, J. See Gyárfás, A. et al., **86g:05025**
- Lempel, Abraham See Etsion, Tsvi, **86h:88142**
- van Lint, J. H. See Hall, J. I., **86h:94020**
- McKay, Brendan See Eades, Peter, **86d:68058**
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- Atsumi, Tsuyoshi A note on the eigenspaces for the adjacency matrices of the Steiner systems. **86f:05022**
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- Beutelspacher, Albrecht Universal algebra and combinatorics—a series of problems. **86i:05026**
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- Colbourn, Charles J. (with Hamm, Rose C.; Rodger, C. A.) Small embeddings of partial directed triple systems and partial triple systems with even λ . **86g:05012**
- Curtis, R. T. The Steiner system $S(5, 6, 12)$, the Mathieu group M_{12} and the "kitten". **86a:05011**
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- Lissio, Angelo (with Marino, Maria Corinna; Milazzo, Filippo) Existence of $S(3, 4, v)$, $v = 5 \cdot 2^n$ and $n \geq 3$, with $q_v = 21$ and $q_v = 25$ blocks in common. 86i:05027
- Lo Faro, Giovanni On the set $J(v)$ for Steiner quadruple systems of order $v = 7 \cdot 2^n$ with $n \geq 2$. 86a:05015
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- Wagner, Klaus Werner The complexity of problems concerning graphs with regularities. (See 86b:68004)
- Wahid, S. A. See Gutman, Ivan et al., 86h:92061
- Wang, Zhe Ming See Guan, Mei Gu et al., 86a:05035
- Wimmer, Wolfgang Using barrier graphs for deadlock prevention in communication networks. 86a:90024

- Wood, R. Kevin A factoring algorithm using polygon-to-chain reductions for computing K -terminal network reliability. **86g:94067**
 Yamada, Takeo (with Luenberger, David G.) Algorithms to verify generic causality and controllability of descriptor systems. **86i:93027**
 Yannakakis, Mihalis See Papadimitriou, Christos H., **86k:68030**
 Zhao, Shi Lin The theory of pleasant stringing trees and some kinds of pleasant trees. (Chinese. English summary) **86j:05053**
 Zhuang, Su Qin See Shan, Ke Yun, **86m:06035**

06-XX ORDER, LATTICES, ORDERED ALGEBRAIC STRUCTURES [See also 18B35.]

06-01 Elementary exposition; textbooks

- (Beran, Ladislav) See Faure, Robert, **86c:06001**
 Faure, Robert (with Heurigon, Edith) ★ *Usopotádání a Booleovy algebrы*. (Czech) [Ordered structures and Boolean algebras] **86c:06001**
 Heurigon, Edith See Faure, Robert, **86c:06001**
 Lloyd, E. Keith Dangerous loads and lattices. **86c:06002**
 (Noll, Louis) See Faure, Robert, **86c:06001**

secondary classifications (06-01)

- Lidl, Rudolf (with Pils, Günter) ★ Applied abstract algebra. **86d:00002**
 Pils, Günter See Lidl, Rudolf, **86d:00002**

06-02 Advanced exposition (research surveys, monographs, etc.)

- Cao, Zhi Qiang (with Kim, K. H.; Roush, F. W.) ★ Incline algebra and applications. **86e:06001**
 Fishburn, Peter C. ★ Interval orders and interval graphs. **86m:06001**
 Golts, Hans-Joachim See Weese, Martin, **86b:06001**
 Kim, K. H. See Cao, Zhi Qiang et al., **86e:06001**
 Roush, F. W. See Cao, Zhi Qiang et al., **86e:06001**
 Weese, Martin (with Golts, Hans-Joachim) ★ Boolean algebras. **86b:06001**

secondary classifications (06-02)

- Beran, Ladislav ★ Orthomodular lattices. **86m:06015a**
 ★ Orthomodular lattices. **86m:06015b**
 (Katriňák, Tibor) See Ordered sets and lattices, **86g:06001**
 Ordered sets and lattices ★ Упорядоченные множества и решетки. (Russian) [Ordered sets and lattices] **86g:06001**

06-04 Explicit machine computation and programs (not the theory of computation or programming)

secondary classifications (06-04)

- Colbourn, Charles J. (with Pulleyblank, William) Minimizing setups in ordered sets of fixed width. **86i:06001**
 Hu, Shou Ben See Liu, Chu Chang, **86m:88073**
 Lintal, Nathan (with Saks, Michael) Searching order structures. **86g:88022**
 Liu, Chu Chang (with Hu, Shou Ben) A mechanical algorithm of equivalent classification for free distributive lattices. (Chinese. English summary) **86m:88073**
 Pulleyblank, William See Colbourn, Charles J., **86i:06001**
 Saks, Michael See Lintal, Nathan, **86g:88022**

06-06 Proceedings, conferences, etc.

- (Comer, Stephen D.) See Universal algebra and lattice theory, **86m:06002**
 (Katriňák, Tibor) See Ordered sets and lattices, **86g:06001**
 (Pouzet, Maurice) See Special issue: Ordered sets and their applications, **86a:06001**
 (Richard, Denis) See Special issue: Ordered sets and their applications, **86a:06001**
 Charleston, S.C. ★ Universal algebra and lattice theory. **86m:06002**

Conference:

- Ordered sets and their applications ★ Special volume on ordered sets and their applications. **86a:06001**
 Universal algebra and lattice theory ★ Universal algebra and lattice theory. **86m:06002**
 Graphs ★ Grafos. [Graphs]. **86j:06001**
 Homogeneous subsets in graphs and hypergraphs and ordered sets ★ Partes homogéneas en grafos e hipergrafos y conjuntos ordenados. Parte I. [Homogeneous subsets in graphs and hypergraphs and ordered sets. Part I]. **86j:06002**
 L'Arbreale ★ Special volume on ordered sets and their applications. **86a:06001**
 Mar del Plata/La Plata ★ Partes homogéneas en grafos e hipergrafos y conjuntos ordenados. Parte I. [Homogeneous subsets in graphs and hypergraphs and ordered sets. Part I]. **86j:06002**
 Ordered sets and lattices ★ Упорядоченные множества и решетки. (Russian) [Ordered sets and lattices] **86g:06001**
 Seminar:
 Homogeneous subsets in graphs and hypergraphs and ordered sets ★ Partes homogéneas en grafos e hipergrafos y conjuntos ordenados. Parte I. [Homogeneous subsets in graphs and hypergraphs and ordered sets. Part I]. **86j:06002**

Special issue:

- Ordered sets and their applications ★ Special volume on ordered sets and their applications. **86a:06001**

Universal algebra and lattice theory ★ Universal algebra and lattice theory. **86m:06002**

secondary classifications (06-06)

- (Hoffmann, Rudolf-E.) See Continuous lattices and their applications, **86m:06011**
 (Hofmann, Karl H.) See Continuous lattices and their applications, **86m:06011**
 (Rival, Ivan) See Graphs and order, **86j:05006**
 Banff, Alta. ★ Graphs and order. **86j:05006**
 Bremen ★ Continuous lattices and their applications. **86m:06011**
 Conference:
 Categorical and topological aspects of continuous lattices ★ Continuous lattices and their applications. **86m:06011**
 Continuous lattices and their applications ★ Continuous lattices and their applications. **86m:06011**
 Graphs and order ★ Graphs and order. **86j:05006**
 NATO Advanced Study Institute:
 Graphs and order ★ Graphs and order. **86j:05006**

06Axx Ordered sets

06A05 Total order

- Hagendorf, Jean Guillaume Quelques résultats et conjectures de la théorie des chaînes. (English summary) [Some results and conjectures of the theory of chains] **86d:06001**
 Höppler, Michael How to use abelian group theory for the study of diagrams over locally well-ordered sets. **86h:06001**
 Pouzet, Maurice (with Zaguia, Nejib) Ordered sets with no chains of ideals of a given type. **86c:06003**
 Rosenstein, Joseph G. Recursive linear orderings. (French summary) **86d:06002**
 Zaguia, Nejib See Pouzet, Maurice, **86c:06003**

secondary classifications (06A05)

- Alling, Norman L. Conway's field of surreal numbers. **86f:04002**
 Bouchitté, V. (with Habib, Michel; Jegou, R.) On the greedy dimension of a partial order. **86h:06002**
 Habib, Michel See Bouchitté, V. et al., **86h:06002**
 Hodges, Wilfrid Models built on linear orderings. (French summary) **86h:03053**
 Holland, W. Charles (with Mekler, Alan H.; Shelah, S.) Lawless order. **86m:06032**
 Jegou, R. See Bouchitté, V. et al., **86h:06002**
 Mekler, Alan H. See Holland, W. Charles et al., **86m:06032**
 Narens, L. ★ Abstract measurement theory. **86b:92028**
 Rival, Ivan Linear extensions of finite ordered sets. (French summary) **86f:06003**
 Shelah, S. See Holland, W. Charles et al., **86m:06032**
 Sholomov, L. A. Complexity of realization of binary relations by means of set-theoretic operations over linear order relations. (Russian) **86e:04001a**
 Skilton, Donald K. Imbedding posets in the integers. **86b:06002**
 Thomason, S. K. On constructing instantons from events. **86f:03035**
 Todorcević, Stevo Trees and linearly ordered sets. **86h:54040**

06A10 Partial order

- Albert, Michael H. Iteratively algebraic posets have the ACC. **86c:06004**
 Björner, Anders Posets, regular CW complexes and Bruhat order. **86e:06002**
 Blyth, T. S. Residuated mappings. **86c:06005**
 Bondarenko, V. M. Exact partially ordered sets of infinite growth. (Russian) **86c:06006**
 Bouchitté, V. (with Habib, Michel; Jegou, R.) On the greedy dimension of a partial order. **86h:06002**
 Brini, Andrea (with Terrusi, Antonio) Homotopically invariant reductions of partially ordered sets. (Italian) **86j:06003**
 Clarke, Robert John Modelling competitions by poset multiplication. **86d:06003**
 Colbourn, Charles J. (with Pulleyblank, William) Minimizing setups in ordered sets of fixed width. **86i:06001**
 Coromina, E. On better quasi-ordering countable trees. (French summary) **86i:06001**
 Daykin, David E. (with Daykin, Jacqueline W.; Paterson, Michael S.) On log concavity for order-preserving maps of partial orders. **86c:06007**
 Daykin, Jacqueline W. See Daykin, David E. et al., **86c:06007**
 Dion, J.-P. The Sperner property for posets: a probabilistic approach. (French summary) **86i:06002**
 Doignon, Jean-Paul Generalizations of interval orders. (See **86d:92001**)
 Duffus, Dwight (with Pouzet, Maurice) Representing ordered sets by chains. (French summary) **86f:06001**
 Automorphisms and products of ordered sets. **86h:06003**
 Powers of ordered sets. **86c:06008**
 El-Zahar, M. H. (with Schmerl, J. H.) On the size of jump-critical ordered sets. **86h:06004**
 Engel, Konrad Optimal representations, LYM posets, Peck posets, and the Ahlawede-Daykin inequality. **86g:06002**
 A new proof of a theorem of Harper on the Sperner-Erdős problem. **86i:06003**
 Etienne, Gwihen Linear extensions of finite posets and a conjecture of G. Kreweras on permutations. **86c:06003**
 Faigle, Ulrich Optimal matchings in posets. **86e:06004**
 (with Giers, Gerhard) A construction for strongly greedy ordered sets. **86g:06003**
 Fishburn, Peter C. Numbers of lengths for representations of interval orders. **86c:06010**
 Paradoxes of two-length interval orders. **86c:06009**
 A correlational inequality for linear extensions of a poset. **86c:06011**
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 Flament, Claude Comparability graphs with constraint, partial semi-orders and interval orders. (French summary) **86h:06005**
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 Ginsburg, John Compactness and subsets of ordered sets that meet all maximal chains. **86f:06002**

- Graham, R. L. Applications of the FKG inequality and its relatives. 86i:06005
- Griggs, Jerrold R. The Sperner property. (French summary) 86i:06006
- Habib, Michel. See Bouchitté, V. et al., 86h:06002
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- Hu, Yong. General inversion on posets and its applications. (Chinese. English summary) 86a:06002
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- Iturrios, Luisa. Orthomodular ordered sets and orthogonal closure spaces. 86g:06005
- Jegou, R. See Bouchitté, V. et al., 86h:06002
- Kahn, Jeffrey (with Saks, Michael) Balancing poset extensions. 86m:06003
- Kierstead, H. A. (with McNulty, George F.; Trotter, William T., Jr.) A theory of recursive dimension for ordered sets. 86a:06003
- Kleitman, D. J. See Sha, Ji Chang, 86d:06005
- Kleitman, Jif. Fixed point characterization of completeness on lattices for relatively isotone mappings. 86m:06004
- Kreweras, G. Dénombrément des ordres étagés. (English summary) [Enumeration of tiered orders] 86e:06005
- Lensi, Domenico. On some topological properties of the V -prime elements of a partially ordered set. (Italian summary) 86g:06006
- Li, Bo Yu. See Wang, Shang Zhi, 86a:06005a and 86a:06005b
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- Möhring, Rolf H. (with Radermacher, Franz J.) Dimension, reversibility and chain-equivalence of posets, and connections with homomorphisms. 86c:06012
- Monro, G. P. See Hickman, R. C., 86h:06006
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- Nasárova, L. A. (with Rofter, A. V.) Representations and forms of weakly completed partially ordered sets. (Russian) 86d:06004
- Neggers, J. Random real valued order preserving maps on finite posets. 86g:06007
- Ney, Paul. Interval space representation of interval structures. 86a:06004
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- Patonson, Michael S. See Daykin, David E. et al., 86c:06007
- Pattanaik, Prasanta K. See Nitsan, Shmuel I., 86h:06007
- Perfect, Hazel. Addendum to: "A short proof of the existence of k -saturated partitions of partially ordered sets" [Adv. in Math. 33 (1979), no. 3, 207-211; MR 82c:06008] by M. Saks. 86a:06007
- Pouset, Maurice. See Duffus, Dwight, 86f:06001
- Pták, Pavel. Categories of orthomodular posets. (Russian summary) 86i:06007
- Pulleyblank, William. See Colbourn, Charles J., 86i:06001
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- Rival, Ivan. Linear extensions of finite ordered sets. (French summary) 86f:06003
- (with Zaguia, Nejib) Antichain cutsets. 86i:06003
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- Roubens, Marc (with Vincke, Philippe) A definition of partial interval orders. 86e:06008
- Rutkowski, Aleksander. Multifunctions and the fixed point property for products of ordered sets. 86a:06005
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- Slapal, Josef. Representative properties of the quasiordered set $F(\alpha, M)$. 86d:06006
- Sylo, Maciej M. Minimizing the jump number for partially ordered sets: a graph-theoretic approach. 86g:06004
- Terrui, Antonio. See Brini, Andrea, 86j:06003
- Tovey, Craig A. (with West, Douglas B.) Networks and chain coverings in partial orders and their products. 86m:06006
- Trombetta, Maurizio. A system of axioms for the relation of betweenness. (Italian. English summary) 86k:06004
- Trotter, William T., Jr. The dimension of the Cartesian product of partial orders. (French summary) 86g:06008
- See also Kierstead, H. A. et al., 86a:06003 and Fishburn, Peter C., 86i:06004
- Tsao, Hung Ping. On LYM property of a partially ordered set. 86g:06009
- Tsutsura, A. I. Definability of ordered sets by a partial groupoid of endomorphisms of rank 2. (Russian) 86f:06004
- Viennot, G. Chain and antichain families, grids and Young tableaux. (French summary) 86h:06008
- Vincke, Philippe. See Roubens, Marc, 86e:06008
- Wang, Guo Jun. Partially ordered sets, maximal elements and directed sets. (Chinese) 86e:06009
- Wang, Shang Zhi (with Li, Bo Yu) Minimal cofinal subsets of directed quasiordered sets. (Chinese. English summary) 86a:06005b
- (with Li, Bo Yu) On the minimal cofinal subsets of a directed quasi-ordered set. 86a:06005a
- West, Douglas B. See Tovey, Craig A., 86m:06006
- Winkler, Peter M. Random orders. 86j:06004
- Zaguia, Nejib. Chaînes d'ideaux et de sections initiales d'un ensemble ordonné. [Chains of ideals and of initial segments of an ordered set] 86c:06014
- See also Rival, Ivan, 86k:06003
- Zavadskii, A. G. The structure of representations of partially ordered sets of finite growth. (Russian) 86d:06007
- Zhao, Cui Kui. On the fixed point property for finite posets. (Chinese. English summary) 86a:06006
- Adams, M. E. (with Koubek, V.; Sichler, J.) Homomorphisms and endomorphisms of distributive lattices. 86m:06016
- Anderson, Ian. Counting common representatives and symmetric chain decompositions. 86i:06003
- Bayer, Margaret M. (with Billera, Louis J.) Counting faces and chains in polytopes and posets. 86f:52010a
- (with Billera, Louis J.) Generalized Dehn-Sommerville relations for polytopes, spheres and Eulerian partially ordered sets. 86f:52010b
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- Björner, Anders. Reflexive domains and fixed points. 86j:18007
- Combinatorics and topology. 86j:05003
- Bo'ashav, V. I. Enumeration in the presence of a group action. (Russian) 86j:05013
- Brodskii, G. M. (with Solov'eva, N. A.) The partially ordered set of subtrees of a graph. (Russian) (See 86f:00007)
- Burkill, H. Monotonic functions on partially ordered sets. 86b:26016
- Clements, G. F. On uniqueness of maximal antichains of subsets of a multiset. 86h:05002
- Crapo, Henry. Selectors: a theory of formal languages, semimodular lattices, and branching and shelling processes. 86d:05029
- Devlin, Keith J. (with Steprāns, Juris; Watson, Stephen) The number of directed sets. 86e:03047
- Dixon, Martyn R. (with Fournelle, Thomas A.) The indecomposability of certain wreath products indexed by partially ordered sets. 86i:20044
- Dräxler, Peter. Verallgemeinerte Fasersummen und Darstellungen geordneter Mengen. [Generalized fiber sums and representations of ordered sets] 86d:16024
- Edelman, Paul H. (with Walker, James W.) The homotopy type of hyperplane posets. 86j:52004
- Engel, Konrad. An Erdős-Ko-Rado theorem for the subcubes of a cube. 86c:05029
- (with Kuzurin, N. N.) An asymptotic formula for the maximum size of an h -family in products of partially ordered sets. 86c:05008
- Faigle, Ulrich (with Turán, György) Sorting and recognition problems for ordered sets. 86j:58052
- Fishburn, Peter C. ★ Interval orders and interval graphs. 86m:06001
- Fournelle, Thomas A. See Dixon, Martyn R., 86i:20044
- Frolich, John. The isomorphism problem for incidence rings. 86j:16028
- Garsia, A. M. (with Stanton, Dennis) Group actions of Stanley-Reisner rings and invariants of permutation groups. 86f:20003
- Gogolla, Martin. Partially ordered sorts in algebraic specifications. 86h:68100
- Graham, S. B. Galvin's "racing pawns" game and a well-ordering of trees. 86d:04002
- Grätzer, George (with Kelly, David) The construction of some free m -lattices on posets. (French summary) 86i:06014a
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- Hedertsterna, Anders. A remark on the connexion between procedure and value. 86j:00009
- Ismailov, F. A. (with Mustafae, L. G.) Superaassociative algebras of homomorphisms. (Russian. English and Azerbaijani summaries) 86c:08007
- Jambu-Graudet, Michèle. Quelques remarques sur l'équivalence élémentaire entre groupes ou treillis d'automorphismes de chaînes 2-homogènes. (English summary) [Some remarks on elementary equivalence between groups or lattices of automorphisms of 2-homogeneous chains] 86j:03034
- Katerinichina, N. N. Some relations for subsets of levels of an n -dimensional k -valued lattice. (Russian) 86h:05021
- Kelly, David. See Grätzer, George, 86i:06014a and 86i:06014b
- Koubek, V. See Adams, M. E. et al., 86m:06016
- Kratzer, Charles (with Thévenaz, Jacques) Fonction de Möbius d'un groupe fini et anneau de Burnside. [Möbius functions of finite groups and Burnside rings] 86k:20011
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- Marlowe, Thomas. The diagonal of a pointed coalgebra and incidence-like structure. 86j:16002
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- Mustafae, L. G. See Ismailov, F. A., 86c:08007
- Nesetril, Jaroslav. Some nonstandard Ramsey-like applications. 86e:04002
- Novák, Vítěslav. On some minimal problem. 86h:04001a
- Operations on cyclically ordered sets. 86h:04001b
- Pflüneck, Helmut. K -density, N -density, and finiteness properties. 86m:68109
- Pouset, Maurice (with Zaguia, Nejib) Ordered sets with no chains of ideals of a given type. 86c:06003
- Putt, Harold L. Partially ordered permutation groups. 86d:06024
- Radtke, Sabine. Die Anzahl aller möglichen Halbordnungrelationen auf einer maximal sechs-elementigen Menge. [The number of all possible partial-order relations on a maximally six-element set] 86c:05020
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- Stanton, Dennis (with Wachs, Michelle) Modularly complemented lattices and shellability. 86h:06021
- Harmonics on posets. 86k:33010

secondary classifications (06A10)

Abian, Alexander. See Steiner, Donald D., 86j:06008

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Steiner, Donald D. (with Abian, Alexander) Nonexistence of nonmolecular generic sets. 86j:06008

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Suck, Reinhard Factorization and additive decomposition of a weak order. 86h:02057

Taganov, I. N. (with Turgumbaev, G. A.) Set-theoretic properties of the causal relation. (Russian. Kazakh summary) 86b:03028

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Thomas, Robin Series-parallel graphs and well- and better-quasi-orderings. 86g:05090

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Thorlund-Petersen, Lars Revealed preferences by topological methods. 86i:90010

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Weiss, William Versions of Martin's axiom. 86h:03088

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Cao, Zhi Qiang An algebraic system generalizing the fuzzy subsets of a set. 86a:06007

Galuska, Jan Generalized absorption laws in bisemilattices. 86h:06009

Giers, Gerhard (with Lawson, Jimmie D.; Stralka, Albert) Intrinsic topologies on semilattices of finite breadth. 86b:06003

Hoo, C. S. (with Ramana Murty, P. V.) Modular and admissible semilattices. 86f:06006

Atoms, primes and implicative lattices. 86d:06008

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Nemits, William C. Extensions of Brouwerian semilattices. 86m:06007

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Shiryaev, V. M. Semilattices with semidistributive lattices of subsemilattices. (Russian) 86g:06013

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Slatinaký, Emil Die arithmetische Operation der Summe. [The arithmetic operation of the sum] 86h:06011

Stralka, Albert See Giers, Gerhard et al., 86b:06003

Zimmermann, Uwe (with Köhler, Peter) Products of finitely based varieties of Brouwerian semilattices. 86a:06008

secondary classifications (06A12)

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Plonka, J. On the sum of a (T_0, T_1) semilattice ordered system of algebras. (Russian summary) 86j:06001

Romanowska, A. B. (with Smith, J. D. H.) \star Modal theory: an algebraic approach to order, geometry, and convexity. 86k:08001

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06A15 Galois correspondences, closure operators

Bandelt, Hans-J. Toleranzrelationen als Galoisverbindungen. [Tolerance relations as Galois connections] 86g:06014

Barankin, Edward W. (with Takahasi, Koiti) Betweenness for real vectors and lines. III. Alternative characterizations of betweennesses. 86m:06008

Batten, Lynn Margaret Jordan-Dedekind spaces. 86i:06006

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- Putt, Harold L. Partially ordered permutation groups. 86d:06024
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- Riečan, Beloslav (with Volau, Peter) On a technical lemma in lattice ordered groups. (Russian and Slovak summaries) 86h:06034
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- Volau, Peter. See Riečan, Beloslav, 86h:06034
- Wood, Carol. See Glass, A. M. W. et al., 86c:06020
- Zabzarina, A. I. Linear and cyclic orders in a group. (Russian) 86g:06028
- Žilović, Malita R. Ordered axioms of separability of ordered topological groups. (Russian. Serbo-Croatian summary) 86f:06027
- secondary classifications (06F15)
- Blasas, Arati (with Ray, K. C.) On measures in a Boolean algebra with values in l -group. 86c:28015
- Björner, Anders. Orderings of Coxeter groups. 86i:05024
- Cohn, P. M. On p -powers of an ordered skew field. 86j:16019
- Glass, A. M. W. (with Madden, James J.) The word problem versus the isomorphism problem. 86i:03059
- Holland, W. Charles. A note on lattice orderability of groups. 86i:20080
- Karpilovsky, G. On group rings of ordered groups. 86k:16006
- Madden, James J. See Glass, A. M. W., 86i:03059
- McCarthy, Patrick J. (with Stephenson, W.) The classification of the conjugacy classes of the full group of homeomorphisms of an open interval and the general solution of certain functional equations. 86j:39007
- Medvedev, N. Ya. The free product of Γ -torsion-free groups. (Russian) 86d:20046
- Pillay, Anand (with Steinhorn, Charles) Definable sets in ordered structures. 86c:03033
- Ray, K. C. See Blasas, Arati, 86c:28015
- Schmidt, Klaus D. A common abstraction of Boolean rings and lattice ordered groups. 86g:06027
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06F20 Ordered abelian groups, ordered linear spaces [See also 46A40.]

- Anderson, D. D. (with Johnson, E. W.) Join-principally generated multiplicative lattices. **86a:06024**
 Butkovit, P. Necessary solvability conditions of systems of linear extremal equations. **86b:06035**
 Jakubík, Ján On radical classes of abelian linearly ordered groups. (Russian summary) **86m:06035**
 Johnson, E. W. See Anderson, D. D., **86a:06024**
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 Rachůnek, Jiří Isometries in ordered groups. **86a:06026**
 Weibull, Jörgen W. Continuous linear representations of preference orderings in vector space. **86e:06018**

secondary classifications (06F20)

- Brunner, Norbert Positive functionals and the axiom of choice. **86f:03080**
 Giovagnoli, A. (with Wynn, H. P.) G -majorization with applications to matrix orderings. **86m:15017**
 Glass, A. M. W. (with Madden, James J.) The word problem versus the isomorphism problem. **86i:03059**
 Kopytov, V. M. A nonabelian variety of lattice-ordered groups in which every solvable l -group is abelian. (Russian) **86j:06010**
 Lenak, Wolfgang Elimination of quantifiers for the theory of Archimedean ordered divisible groups in a logic with Ramsey quantifiers. **86k:03020**
 Madden, James J. See Glass, A. M. W., **86i:03059**
 Schmitt, P. H. Model- and substructure-complete theories of ordered abelian groups. **86h:03063**
 Wynn, H. P. See Giovagnoli, A., **86m:15017**

06F25 Ordered rings, algebras, modules [For ordered fields, see 12J15; see also 13J25, 16A86.]

- Synnaschke, J. Über eindimensionale Elemente kommutativer halbgeordneter Algebren. [On one-dimensional elements of commutative partially ordered algebras] **86d:06025**
 Trias Paló, Joan The main inclusion theorem in lattice-ordered rings and f -rings. (Spanish. English summary) (See **86h:00009b**)
 On lattice-dilations and contractions in f -rings. (See **86g:00012a**)

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- Ayupov, Sh. A. See Sarymsakov, T. A. et al., **86h:46004**
 Brucker, P. (with Papenjoanni, W.; Zimmermann, Uwe) A dual optimality criterion for algebraic linear programs. **86i:90069**
 Chilin, V. I. See Sarymsakov, T. A. et al., **86h:46004**
 Coromina, E. On better quasi-ordering countable trees. (French summary) **86k:06001**
 Feldman, William A. Relatively uniformly complete Φ -algebras. **86k:54026**
 Khadzhev, Dah. See Sarymsakov, T. A. et al., **86h:46004**
 Papenjoanni, W. See Brucker, P. et al., **86i:90069**
 Sarymsakov, T. A. (with Ayupov, Sh. A.; Khadzhev, Dah.; Chilin, V. I.) \star Упорядоченные алгебры. (Russian) [Ordered algebras] **86h:46004**
 Shamshev, I. I. Abstract orthomorphisms and homomorphisms of lattice-ordered algebras. (Russian) **86h:46013**
 Zimmermann, Uwe See Brucker, P. et al., **86i:90069**

06F30 Topological lattices, order topologies [See also 06B30, 54F05, 54H12.]

- Hu, Shi Geng Topological molecular lattices induced by mappings. (Chinese. English summary) **86c:06026**
 Semi-uniformities on lattices. (Chinese. English summary) **86c:06027**
 Kotlarski, Henryk Bounded induction and satisfaction classes. (See **86m:03003**)

secondary classifications (06F30)

- Giers, Gerhard (with Lawson, Jimmie D.; Stralka, Albert) Intrinsic topologies on semilattices of finite breadth. **86b:06003**
 Harshel, Egbert On topological properties of Cartesian products of linearly ordered continua. (French summary) **86i:54031**
 Hu, Shi Geng Semiuniform topological lattices with a countable basis. (Chinese) **86c:54030**
 Lawson, Jimmie D. See Giers, Gerhard et al., **86b:06003**
 Matolcsy, K. Syntopogenous spaces with preorder. I. Convexity. **86c:54029a**
 Syntopogenous spaces with preorder. II. Continuity. **86c:54029b**
 Syntopogenous spaces with preorder. III. Separation. **86c:54029c**
 Syntopogenous spaces with preorder. IV. Regularity, normality. **86c:54055**
 Nedogibchenko, G. V. Exhaustive topologies and measures on Boolean algebras. (Russian) **86m:06028**
 Stralka, Albert See Giers, Gerhard et al., **86b:06003**
 Traynor, Tim Modular functions and their Fréchet-Nikodym topologies. **86h:28008**

06F99 None of the above, but in this section

- Bergman, George M. (with Kaplansky, Irving) A cofinal coloring theorem for partially ordered algebras. **86h:06036**
 da Costa Reis, M. Raquel P. L'équivalence d'Artin dans les groupoïdes-treillis. [The Artin equivalence in groupoid lattices] (See **86j:00013**)
 Guesarian, Irène (with Nivat, M.) About ordered sets in algebraic semantics. (French summary) **86k:06013**
 Kaplansky, Irving See Bergman, George M., **86h:06036**
 Nivat, M. See Guesarian, Irène, **86k:06013**

secondary classifications (06F99)

- Cichoń, J. (with Kamburelis, A.; Pawlikowski, Janusz) On dense subsets of the measure algebra. **86j:04001**
 Croon, M. A. The axiomatization of additive difference models for preference judgements. **86k:92034**
 Font i Llovet, Josep Ma. (with Rodríguez Salas, A. J.) Note on the logical significance of certain elementary residuated structures. (Spanish. English summary) (See **86g:00012a**)
 Kamburelis, A. See Cichoń, J. et al., **86j:04001**
 Narens, L. \star Abstract measurement theory. **86b:92028**
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 Rodríguez Salas, A. J. See Font i Llovet, Josep Ma., (**86g:00012a**)
 Satyanarayana, M. On the additive semigroup of ordered semirings. **86g:06026**

08-XX GENERAL MATHEMATICAL SYSTEMS

08-02 Advanced exposition (research surveys, monographs, etc.)

- Romanowska, A. B. (with Smith, J. D. H.) \star Modal theory: an algebraic approach to order, geometry, and convexity. **86k:08001**
 Smith, J. D. H. See Romanowska, A. B., **86k:08001**

08-04 Explicit machine computation and programs (not the theory of computation or programming)

secondary classifications (08-04)

- Jürgensen, H. Komplexität von Erzeugen in Algebren. (English summary) [Complexity of generation in algebras] **86h:68084**

08-06 Proceedings, conferences, etc.

- (Burmeister, P.) See Universal algebra and its links with logic, algebra, combinatorics and computer science. **86d:08001**
 (Ganter, B.) See Universal algebra and its links with logic, algebra, combinatorics and computer science. **86d:08001**
 (Herrmann, Christian) See Universal algebra and its links with logic, algebra, combinatorics and computer science. **86d:08001**
 (Keimel, K.) See Universal algebra and its links with logic, algebra, combinatorics and computer science. **86d:08001**
 (Pogutke, W.) See Universal algebra and its links with logic, algebra, combinatorics and computer science. **86d:08001**
 (Wille, Rudolf) See Universal algebra and its links with logic, algebra, combinatorics and computer science. **86d:08001**
 Darmstadt \star Universal algebra and its links with logic, algebra, combinatorics and computer science. **86d:08001**
 Universal algebra and its links with logic, algebra, combinatorics and computer science \star Universal algebra and its links with logic, algebra, combinatorics and computer science. **86d:08001**
 Workshop:
 General algebra \star Universal algebra and its links with logic, algebra, combinatorics and computer science. **86d:08001**

secondary classifications (08-06)

- (Comer, Stephen D.) See Universal algebra and lattice theory. **86m:06002**
 Charleston, S. C. \star Universal algebra and lattice theory. **86m:06002**
 Conference:
 Universal algebra and lattice theory \star Universal algebra and lattice theory. **86m:06002**
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08Axx Universal algebra [See also 03C05.]

secondary classifications (08Axx)

- Henkin, Leon (with Monk, J. Donald; Tarski, Alfred) \star Cylindric algebras. Part I. **86m:03095a**
 Monk, J. Donald See Henkin, Leon et al., **86m:03095a**
 Tarski, Alfred See Henkin, Leon et al., **86m:03095a**
 08A02 Relational systems, laws of composition
 Gondran, M. (with Minoux, M.) Linear algebra in dioids: a survey of recent results. **86c:08001**
 Minoux, M. See Gondran, M., **86c:08001**
 Neumann, B. H. Commutative quandles. **86k:08002**
 Novák, Vítěslav On a power of relational structures. **86c:08002**
 Pálffy, P. P. (with Szendrei, Ágnes) Unary polynomials in algebras. II. **86h:08001b**
 Unary polynomials in algebras. I. **86h:08001a**
 Pöschel, Reinhard Closure properties for relational systems with given endomorphism structure. **86f:08001**
 Schweigert, D. Congruence relations of multialgebras. (French summary) **86h:08002**
 Šešelja, Branimir See Ušan, Janes, **86m:08001**
 Szendrei, Ágnes See Pálffy, P. P., **86h:08001b**
 Ušan, Janes (with Šešelja, Branimir) On some operations on the set $P(S^{n+1})$. (Macedonian summary) **86m:08001**

secondary classifications (08A02)

- Aleina, Claudia A functional inequality for distribution functions. **86i:39011**
(with Schweizer, B.) Menger-betweenness in α -simple spaces. **86h:54050**
- Betti, Renato Probabilistic metrics in general category theory. **86i:54029**
- Birsan, T. Une application d'un théorème de J. Aczél. [An application of a theorem of J. Aczél] **86f:54047**
- Broy, Manfred (with Wirsing, Martin; Pair, C.) A systematic study of models of abstract data types. **86h:68124**
- Ding, Xie Ping A common fixed point theorem of commuting mappings in probabilistic metric spaces. **86f:54074**
- Di Nola, A. (with Pedrycz, Witold; Sessa, Salvatore; Wang, Pei Zhuang) Fuzzy relation equation under a class of triangular norms: a survey and new results. **86g:94068**
- Dõ Hong Tân On the probabilistic inner measure of noncompactness. (Serbo-Croatian summary) **86h:54057**
- Engeler, Erwin Equations in combinatory algebras. (See **86a:68004**)
- Finbow, A. (with Kabe, D. G.) A note on some fixed point theorems on statistical metric spaces. **86f:54075**
- Florescu, Liviu Convergence and completeness in probabilistic spaces. (Romanian) (See **86j:53002**)
- Gejn, Alexander Minimal noncommutative and minimal nonabelian algebras. **86d:17007**
- Hadžić, Olga On common fixed points in metric and probabilistic metric spaces with convex structures. (Serbo-Croatian summary) **86e:54052**
- Hansoul, Georges Algèbres de Boole primitives. (English summary) [Primitive Boolean algebras] **86m:06027**
- Hicks, T. L. Fixed point theory in probabilistic metric spaces. (Serbo-Croatian summary) **86h:54052**
(with Sharma, P. L.) Probabilistic metric structures: topological classification. (Serbo-Croatian summary) **86f:54053**
(with Sharma, P. L.) Random normed structures. (Serbo-Croatian summary) **86k:46028**
- Jónsson, Bjarni Maximal algebras of binary relations. **86f:06007**
- Kabe, D. G. See Finbow, A. **86f:54075**
- Lipovan, O. σ -algebras with probabilistic σ -submeasures. (Romanian summary) (Not in MR)
- Pair, C. See Broy, Manfred et al., **86h:68124**
- Pant, B. D. See Singh, S. L., **86e:54055**
- Pedrycz, Witold See Di Nola, A. et al., **86g:94068**
- Radu, Viorel On the t -norms of the Hadžić type and fixed points in probabilistic metric spaces. (Serbo-Croatian summary) **86h:54055**
- On the contraction principle in Menger spaces. **86e:47062**
- Ramaswamy, V. Idempotent elements in associative triple systems. (Russian) **86g:20090**
- Rovira, Roser Countable products of probabilistic normed spaces. (Spanish. English summary) **86h:46012**
- Schweizer, B. (with Sklar, A.) \star Probabilistic metric spaces. **86g:54045**
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- Sessa, Salvatore See Di Nola, A. et al., **86g:94068**
- Sharma, P. L. See Hicks, T. L., **86f:54053** and **86k:46028**
- Singh, S. L. (with Pant, B. D.) Common fixed point theorems in probabilistic metric spaces and extension to uniform spaces. **86e:54055**
- Sklar, A. See Schweizer, B., **86g:54045**
- Wang, Pei Zhuang See Di Nola, A. et al., **86g:94068**
- Wirsing, Martin See Broy, Manfred et al., **86h:68124**
- Zhang, Shi Sheng On the theory of probabilistic metric spaces with applications. **86a:54056**
- Zhang, Ying On fixed-point theorems for a pair of contractive mappings in a probabilistic metric space. (Chinese. English summary) **86c:54052**

08A05 Structure theory

- Harary, Frank General connectivity. **86e:08001**
- Iskander, Awad A. Decompositions of universal algebras by idempotent algebras. **86e:08002**
- Länger, Helmut C-S-maximal superassociative systems. II. (Russian summary) **86f:08002**
- Pionka, J. On the sum of a direct system of universal algebras with nullary polynomials. **86b:08001**
On the sum of a (T_ω, T_1) semilattice ordered system of algebras. (Russian summary) **86j:08001**
- Pöschel, Reinhard Hereditary radicals and quasiradicals in universal algebras. **86g:08001**
- Profera, Luigi Primitive or almost primitive Lister ternary rings with nonzero socles. (Italian. English summary) **86i:08001**
- Ursini, Aldo Prime ideals in universal algebras. (Russian and Czech summaries) **86m:08002**

secondary classifications (08A05)

- Crociani, Carla (with Mosucci, Manuela) An algebraic translation of the concept of independence in logic. (Italian. English summary) **86i:03079**
- Mosucci, Manuela See Crociani, Carla, **86i:03079**
- Narens, L. \star Abstract measurement theory. **86b:92028**
- Novák, Vítěslav On a power of relational structures. **86c:08002**
(with Novotný, Miroslav) Universal cyclically ordered sets. **86f:06010**
- Novotný, Miroslav See Novák, Vítěslav, **86f:06010**
- Szendrei, Ágnes Demi-primal algebras. **86a:08005**

08A30 Subalgebras, congruence relations

- Baranek, V. A. Independence of lattices of congruences and groups of automorphisms of lattices. (Russian) **86m:08003**
- Burtman, M. I. Finitely generated subalgebras of the Menger algebra of linear mappings. (Russian. English and Azerbaijani summaries) **86c:08003**

Congruences on the Menger algebra of linear mappings. (Russian. English and Azerbaijani summaries) **86f:08003**

- Chajda, Ivan Varieties with directly decomposable subalgebras and homomorphisms. **86c:08004**

Transferable principal congruences and regular algebras. (Russian summary) **86b:08002**

- García, Octavio (with Poyatos Suárez, Francisco) Trunks of an algebra: the Jordan, Hölder and Green theorems in universal algebra. **86h:08003**

- Gumm, H. P. Geometrical reasoning and analogy in universal algebra. **86m:08004**

- Ihringer, Thomas A property of finite algebras having M_n 's as congruence lattices. **86c:08005**

(with Pasini, Antonio) On linear varieties. **86c:08003**

- Kiss, Emil W. Complemented and skew congruences. (Italian summary) **86g:08002**

Term functions and subalgebras. **86i:08002**

- Koubek, V. Subalgebra lattices, simplicity and rigidity. **86c:08006**

- Micale, Biagio Invariant relations of an algebra: characterizations of Ω -groups. (Italian) **86g:08003**

- Pasini, Antonio See Ihringer, Thomas, **86c:08003**

Poyatos Suárez, Francisco See García, Octavio, **86h:08003**

- Rosenberg, Ivo G. (with Schweigert, D.) Compatible orderings and tolerances of lattices. (French summary) **86d:08002**

- Schweigert, D. See Rosenberg, Ivo G., **86d:08002**

- Sträßner, Karl 1-Kongruenzverbände von endlichen Relationssystemen vom Typ (2). (English and Russian summaries) [Lattices of 1-congruences of finite relational systems of type (2)] **86j:08002**

- Urogu, C. Sur les propriétés latticielles des congruences. (Romanian summary) [Lattice properties of congruences] **86g:08004**

secondary classifications (08A30)

- Abd el Malek, Alf Modularity in Mal'cev algebras. **86h:17024**
- Chacron, J. Toutes les congruences du demi-groupe additif des entiers naturels. [All of the congruences of the additive semigroup of natural numbers] **86i:11001**
- Gerstmann, Horst n -Distributivgesetze. [n -distributive laws] **86f:06021**
- Jones, Peter R. Joins and meets of congruences on a regular semigroup. **86b:20076**
- Köhler, Peter M_7 as an interval in a subgroup lattice. **86d:20023**
- Pionka, J. On bounding congruences in some algebras having the lattice structure. **86f:06013**
- Raman, Vinjamuri See Ramana Murty, P. V., **86g:06012**
- Ramana Murty, P. V. (with Raman, Vinjamuri) Permutability of distributive congruence relations in a joint semilattice directed below. (Russian summary) **86g:06012**
- Schweigert, D. Congruence relations of multialgebras. (French summary) **86h:08002**
- Shiryaev, V. M. Semigroups with A-semidistributive subsemigroup lattices. **86f:20081**
- Troeger, Douglas R. An axiomatization of D -scheme strong equivalence. **86a:68009**
- Tulpiani, Sauro On the size of congruence lattices for models of theories with definability of congruences. **86f:06014**

08A35 Automorphisms, endomorphisms

- Baranek, V. A. Algebraic systems whose elementary theory is compatible with an arbitrary group. (Russian) **86g:08005**
- Länger, Helmut A characterization of endomorphism algebras. **86f:08004**

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- Baranek, V. A. Independence of lattices of congruences and groups of automorphisms of lattices. (Russian) **86m:08003**
- Koubek, V. Subalgebra lattices, simplicity and rigidity. **86c:08006**
- Pöschel, Reinhard Closure properties for relational systems with given endomorphism structure. **86f:08001**
- Schults, Barbara Gruppoide und boolesche Strukturen. [Groupoids and Boolean structures] **86i:20078**

08A40 Operations, polynomials, primal algebras

- Berman, Joel (with McKenzie, Ralph) Clones satisfying the term condition. **86m:08005**
- Chimev, Kiril N. Maximally separable sets of arguments of functions. (Russian. English summary) **86k:08003**
- Demetrovics, János (with Rónyai, L.) Clones with sharply transitive automorphism group. (Russian summary) **86g:08006**
- Denecke, Klaus Algebraische Charakterisierungen präprimaler Algebren. [Algebraic characterizations of preprimal algebras] **86b:08003**
- Dudek, József On binary polynomials in idempotent commutative groupoids. **86a:08001**
- Ismailov, F. A. (with Mustafae, L. G.) Superassociative algebras of homomorphisms. (Russian. English and Azerbaijani summaries) **86c:08007**
- Kaiser, Hans K. Interpolation in universal algebra. **86m:08006**
- Kolyada, K. V. Completeness of regular mappings. (Russian) **86e:08004**
- Länger, Helmut (with Pöschel, Reinhard) Relational systems with trivial endomorphisms and polymorphisms. **86a:08002**
- Lau, Dietlinde Die maximalen Klassen von $\text{Pol}_k\{(x, x+1 \bmod k) | x \in E_k\}$. [The maximal classes of $\text{Pol}_k\{(x, x+1 \bmod k) | x \in E_k\}$] **86f:08005**
- McKenzie, Ralph See Berman, Joel, **86m:08005**
- Muminov, K. K. Convergences in universal algebras. (Russian) **86a:08003**
- Mustafae, L. G. See Ismailov, F. A., **86c:08007**
- Pöschel, Reinhard See Länger, Helmut, **86a:08002**
- Rónyai, L. See Demetrovics, János, **86g:08006**
- Szabó, László Interpolation in algebras with doubly primitive automorphism groups. (German and Russian summaries) **86a:08004a**
- Basic permutation groups on infinite sets. **86a:08004b**
- Characterization of clones acting bicontrarily and containing a primitive group. **86m:08007**
- Szendrei, Ágnes Demi-primal algebras. **86a:08005**

Winkler, Peter M. Polynomial hyperforms. 86f:08005

secondary classifications (08A40)

- Adámek, Jiří (with Nelson, Evelyn) Separately continuous algebras. 86a:68068
 Aisanki, M. A paper on the structural characteristics of the graphs of the functions of one class. (Russian summary) 86i:03027
 Chajda, Ivan Coherence in dual discriminator varieties. (Russian summary) 86m:08013
 Demetrescu, János (with Hannák, L.) Cardinality of sets of closed classes contained in precomplete classes in P_k . (Russian. English summary) 86i:03028
 Denev, I. D. (with Gyudzenov, I. D.) Separable subsets of arguments of functions from P_k . (Russian. English summary) 86j:03021
 Graczyńska, E. On regular identities. 86a:08006
 Gyudzenov, I. D. See Denev, I. D., 86j:03021
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 Schweigert, D. See Rosenberg, Ivo G., 86d:08003
 Szendrei, Ágnes See Pálfi, P. P., 86h:08001b

08A50 Word problems [See also 03D40, 20F10.]

Prodan, N. I. The equality problem for a free CHQ -algebra. (Russian) 86c:08008

secondary classifications (08A50)

- Galuska, Jan Some considerations concerning the presentations of universal algebras. 86h:08009
 Le Chenadec, Philippe Canonical forms in finitely presented algebras. 86g:68102
 08A55 Partial algebras
 Bekbaev, U. D. (with Khadshiev, Dzh.) Extension of partially defined operations. I. (Russian) 86h:08004a
 (with Khadshiev, Dzh.) Extension of partially defined operations. II. (Russian) 86h:08004b
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secondary classifications (08A55)

- Archer, Myla See Kamin, Sam, 86i:68104
 Broy, Manfred (with Wirsing, Martin; Pair, C.) A systematic study of models of abstract data types. 86h:68124
 Gadshiev, F. A. (with Mal'tsev, Andrei Anatolievich) On dense subalgebras of Post algebras and Menger algebras of continuous functions. 86i:03084
 Kamin, Sam (with Archer, Myla) Partial implementations of abstract data types: a dissenting view on errors. 86i:68094
 Mal'tsev, Andrei Anatolievich See Gadshiev, F. A., 86i:03084
 Pair, C. See Broy, Manfred et al., 86h:68124
 Prodan, N. I. See Valutsa, I. I. (Not in MR)
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 Wirsing, Martin See Broy, Manfred et al., 86h:68124

08A60 Unary algebras

- Bochkin, A. M. Unars with a commutative endomorphism monoid. (Russian) 86i:08003
 Chvalina, Jan (with Matoušková, Květoslava) Coregularity of endomorphism monoids of unars. 86j:08003
 Drápal, Aleš Globals of unary algebras. 86m:08008
 Graczyńska, E. Proofs of unary regular identities. 86k:08004
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secondary classifications (08A60)

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08C99 None of the above, but in this section

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- Min, Si He ★ Shulun de fangfa. I. (Chinese) [Methods of number theory. I] 86c:11001
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11-02 Advanced exposition (research surveys, monographs, etc.)

- Erdős, Paul On some of my problems in number theory I would most like to see solved. (See 86h:11002)
- Karatsuba, A. A. ★ Основы аналитической теории чисел. (Russian) [Principles of analytic number theory] 86d:11001
- See also Vaughan, R. C., 86g:11002
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- Vaughan, R. C. ★ Метод Харди-Литтлвуда. (Russian) [The Hardy-Littlewood method] 86g:11002

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- Elliott, P. D. T. A. ★ Arithmetic functions and integer products. 86j:11005
- Erdős, Paul (with Freud, R.; Hegyvári, N.) Some results in combinatorial number theory. (See 86d:11002)
- Some solved and unsolved problems of mine in number theory. (See 86f:11007)
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- Hooley, C. Some recent advances in analytical number theory. 86j:11033
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- Real zeros of the function $\zeta(\frac{1}{2} + it)$. (Russian) 86m:11064
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- Lavrik, A. F. Methods of studying the law of distribution of primes. (Russian) 86d:11070
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11-03 Historical (must also be assigned at least one classification number from Section 01)

- Ėf'ntanov, B. A. A brief outline of the history of the development of the sieve of Eratosthenes. (Russian) 86c:11001
- Parshin, A. N. (with Shafarevich, I. R.) Arithmetic of algebraic varieties (in the Mathematics Institute of the Academy of Sciences). (Russian) 86k:11001
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- Eugeni, Franco (with Rizzi, Bruno) An extension of Anderson-Apostol and Landau identities. (Italian. English summary) **86k:11015**
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11C08 Polynomials [See also 13F20.]

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- Brillhart, John Letter to the editor: "On the number of coprime integral solutions of $y^3 = x^3 + k$ " by S. P. Mohanty and A. M. S. Ramasamy [J. Number Theory 17 (1983), no. 3, 323-326; MR 84k:10012]. **86b:11022**
 Cassels, J. W. S. A note on the Diophantine equation $x^3 + y^3 + z^3 = 3$. **86d:11021**
 The arithmetic of certain quartic curves. **86m:11017**
 Danilov, L. V. Letter to the editors: "The Diophantine equation $x^3 - y^2 = k$ and a conjecture of M. Hall" [Mat. Zametki 32 (1982), no. 3, 273-275; MR 84c:10014]. (Russian) **86c:11014**
 Felgner, Ulrich On Bachet's Diophantine equation $x^3 = y^3 + k$. **86c:11015**
 Hoossain, Md. Fazlee Integral solution of $x^3 + y^3 = 2(a^3 - b^3)$ for integers a and b . (Bengali summary) **86d:11023**
 (Mohanty, S. P.) See Brillhart, John, **86b:11022**
 (Ramasamy, A. M. S.) See Brillhart, John, **86b:11022**
 Surawoera, Francis The Diophantine equation $x^3 = dy^3 + 8$. (Arabic summary) **86b:11023**
 Tsanaklis, Nicholas The Diophantine equation $x^3 - 3xy^2 - y^3 = 1$ and related equations. **86d:11023**
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 Uchiyama, S. Solution of a Diophantine problem. **86i:11010**

secondary classifications (11D25)

- Frey, Gerhard Der Rang der Lösungen von $Y^2 = X^3 \pm p^3$ über \mathbb{Q} . [The rank of the solutions of $Y^2 = X^3 \pm p^3$ over \mathbb{Q}] **86g:11033**
 Reichert, Markus A. Détermination explicite des courbes elliptiques ayant un groupe de torsion non trivial sur des corps de nombres quadratiques sur \mathbb{Q} . [Explicit determination of elliptic curves with nontrivial torsion groups over quadratic number fields over \mathbb{Q}] **86h:11049**
 Zimmer, Horst G. On the problem of Behá Eddin 'Amúli and the computation of height functions. **86g:11083**

11D41 Higher degree equations; Fermat's equation

- Adleman, Leonard M. (with Heath-Brown, D. R.) The first case of Fermat's last theorem. **86b:11022**
 Agoh, T. A note on the first case of Fermat's last theorem. **86i:11011**
 Asubats, Takashi On Fermat's last theorem. **86i:11018**
 Brindsa, B. On a Diophantine equation connected with the Fermat equation. **86e:11019**
 (with Györy, K.; Tijdeman, R.) The Fermat equation with polynomial values as base variables. **86h:11023**
 Chen, Yun Kui See Li, Bai Tian, **86e:11020**
 Estes, Dennis R. (with Guralnick, Robert M.; Schacher, Murray; Straus, E. G.) Equations in prime powers. **86i:11012**
 (Filaseta, M.) See Powell, Barry, **86j:11025**
 Granville, Andrew J. The set of exponents, for which Fermat's last theorem is true, has density one. **86i:11021**
 Refining the conditions on the Fermat quotient. **86g:11010**
 Guralnick, Robert M. See Estes, Dennis R. et al., **86i:11012**
 Györy, K. See Brindsa, B. et al., **86h:11023**
 Heath-Brown, D. R. Fermat's last theorem for "almost all" exponents. **86a:11011**
 See also Adleman, Leonard M., **86b:11022**
 Inkeri, K. On certain equivalent statements for Fermat's last theorem—with requisite corrections. **86c:11016**
 Li, Bai Tian (with Chen, Yun Kui) On some unsolvable cases of the Diophantine equation $x^p + y^p + z^p = k$. (Chinese) **86e:11020**
 Mignotte, M. On the automatic resolution of certain Diophantine equations. **86i:11021**
 Müller, Helmut On some congruences concerning the criteria of Kummer. **86h:11024**
 Oort, Frans In 1983 Faltings proved conjectures by Mordell, Shafarevich and Tate. **86g:11017**
 (Penkov, B.) See Zarkhin, Yu. G., **86g:11018**
 Powell, Barry (with Ribenboim, P.) Note on a paper regarding Fermat's last theorem: "An application of Faltings' results to Fermat's last theorem" [C. R. Math. Rep. Acad. Sci. Canada 6 (1984), no. 1, 31-33; MR 85c:11030] by M. Filaseta. **86j:11025**
 Ribenboim, P. Consecutive powers. **86h:11025**
 An extension of Sophie Germain's method to a wide class of Diophantine equations. **86f:11022**
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 Schacher, Murray See Estes, Dennis R. et al., **86i:11012**
 Stalcu, C. I. Fermat's last theorem and general dimensional analysis. **86j:11026**
 Straus, E. G. See Estes, Dennis R. et al., **86i:11012**
 Tijdeman, R. On the Fermat-Catalan equation. **86c:11017**
 See also Brindsa, B. et al., **86h:11023**
 Trelna, L. A. Representation of powers by polynomials in algebraic number fields. (Russian. English summary) **86h:11026**
 Tsanaklis, Nicholas On the Diophantine equation $y^2 - D = z^k$. **86c:11018**
 Wang, Shi Qiang Some number-theoretic properties of a kind of Goldbach commutative rings. **86f:11023**
 Wang, Zhi Xiong (with Zhou, Hui Shan) A number-theoretic function and its applications to the Fermat conjecture and Ramsey theory. (Chinese) (Not in MR)
 Washington, Lawrence C. On some cyclotomic congruences of F. Thaine. **86c:11019**
 Zarkhin, Yu. G. Finiteness theorems in Diophantine geometry. (Bulgarian) **86g:11018**

Zhou, Hui Shan See Wang, Zhi Xiong (Not in MR)

secondary classifications (11D41)

- Chee, P. S. Famous problems. II. Fermat's last theorem. **86b:11001**
 Faltings, Gerd Neuere Fortschritte in der diophantischen Geometrie. [Recent progress in Diophantine geometry] **86i:11028**
 Fouvry, Étienne Théorème de Brun-Titchmarsh: application au théorème de Fermat. [The Brun-Titchmarsh theorem: application to the Fermat theorem] **86g:11052**
 Serre, Jean-Pierre Nombres de points des courbes algébriques sur \mathbb{F}_q . [Numbers of points of algebraic curves over \mathbb{F}_q] **86d:11051**

11D57 Multiplicative and norm form equations

- Brown, Ezra Sets in which $xy + k$ is always a square. **86k:11019**
 Evertse, J.-H. (with Györy, K.) On unit equations and decomposable form equations. **86j:11027**
 Györy, K. Sur les générateurs des ordres monogènes des corps de nombres algébriques. [Generators of monogenic orders of algebraic number fields] (See **86b:11003**)
 On norm form, discriminant form and index form equations. (See **86d:11002**)
 See also Evertse, J.-H., **86j:11027**
 Kotov, S. V. A remark on Thue's equation. (Russian. English summary) **86i:11013**
 Stepanova, M. B. Diophantine equations of a special type. (Russian) **86j:11028**
 Uta, W. R. The Diophantine equation $r^2 + r(x+y) = kxy$. **86g:11019**
 Warkentin, Peter Die Normformgleichung über dem rationalen Funktionenkörper. [The norm form equation over the rational function field] **86d:11025**
 Über Normformgleichungen mit beschränkter Lösungsmenge. [On norm form inequalities with a restricted set of solutions] **86d:11026**

secondary classifications (11D57)

- Sun, Qi On a problem of Š. Zám. (Chinese. English summary) **86f:11018**

11D61 Exponential equations

- Alex, Leo J. The Diophantine equation $3^a + 5^b = 7^c + 11^d$. **86e:11022**
 On the Diophantine equation $1 + 2^a = 3^b 5^c + 2^d 3^e 5^f$. **86e:11023**
 Brindsa, B. On some generalizations of the Diophantine equation $1^k + 2^k + \dots + x^k = y^k$. **86j:11029**
 Grelek, A. See Grytczuk, A., **86d:11027**
 Grytczuk, A. (with Grelek, A.) On the equation $a^x + b^y = c^z$. **86d:11027**
 Laurent, Michel Équations diophantiennes exponentielles. (English summary) [Exponential Diophantine equations] **86d:11028**
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 Sternheimer, R. M. A corollary to iterated exponentiation. **86j:11030**
 Uchiyama, S. On the Diophantine equation $x^2 y^2 = z^2$. **86i:11014**
 Yen, Cheng Ts. Some exponential Diophantine equations. **86j:11031**

secondary classifications (11D61)

- Levitz, Hilbert Decidability of some problems pertaining to base 2 exponential Diophantine equations. **86m:03022**
 Sleeman, B. D. (with Smith, P. D.) Floquet theory for doubly-periodic differential equations and a number theory conjecture. **86c:34012**
 Smith, P. D. See Sleeman, B. D., **86c:34012**

11D68 Rational numbers as sums of fractions

- Dobbs, David E. (with McConnel, Robert M.) An Egyptian algorithm for polynomials. **86m:11018**
 McConnel, Robert M. See Dobbs, David E., **86m:11018**
 Voss, Michael D. Egyptian fractions. **86b:11024**

11D72 Equations in many variables [See also 11P55.]

- Leep, D. B. (with Schmidt, Wolfgang M.) Systems of homogeneous equations. **86c:11020**
 Lewis, Donald J. (with Schulze-Pillot, Rainer) Linear spaces on the intersection of cubic hypersurfaces. **86b:11025**
 Mason, R. C. ★ Diophantine equations over function fields. **86b:11026**
 Equations over function fields. **86a:11012**
 Schmidt, Wolfgang M. ★ Analytische Methoden für Diophantische Gleichungen. Einführende Vorlesungen. (German) [Analytical methods for Diophantine equations. Introductory lectures] **86f:11024**
 The density of integer points on homogeneous varieties. **86h:11027**
 Small solutions of congruences in a large number of variables. **86m:11019**
 See also Leep, D. B., **86c:11020**
 Schulze-Pillot, Rainer See Lewis, Donald J., **86b:11025**

secondary classifications (11D72)

- Baker, R. C. Small solutions of congruences. **86c:11027**
 Laurent, Michel Équations diophantiennes exponentielles. [Exponential Diophantine equations] **86j:11062**
 Noguchi, Junjirō Hyperbolic fibre spaces and Mordell's conjecture over function fields. **86k:32022**
 Schinzel, A. Reducibility of lacunary polynomials. V. **86d:11083**

11D75 Diophantine inequalities [See also 11J25.]

Strauch, Oto A coherence between the Diophantine approximations and the Dini derivatives of some real functions. (Russian and Slovak summaries) **86c:11021**

secondary classifications (11D75)

Kevorkian, J. (with Li, H. K.) Resonant modal interactions and adiabatic invariance for a nonlinear wave equation in a variable domain. **86a:35093**

Li, H. K. See Kevorkian, J., **86a:35093**

Schmidt, Wolfgang M. Small solutions of congruences in a large number of variables. **86m:11019**

11D79 Congruences in many variables

Browkin, Jerzy On systems of congruences. (Russian summary) **86a:11013**

Schmidt, Wolfgang M. Analytic methods for congruences, Diophantine equations and approximations. **86m:11020**

11D85 Representation problems [See also 11P55.]

Beck, Eugen Über die Darstellung einer positiven rationalen Zahl als Quotient zweier Summen aus fünften Potenzen nichtnegativer ganzer Zahlen. [On the representation of a positive rational number as quotient of two sums of fifth powers of nonnegative integers] **86c:11022**

Elliott, P. D. T. A. The value distribution of reducible cubics. **86h:11028**

Fendel, Daniel Prime-producing polynomials and principal ideal domains. **86j:11032**

Hooley, C. Some recent advances in analytical number theory. **86j:11033**

Katre, S. A. (with Rajwade, A. R.) Unique determination of cyclotomic numbers of order five. **86k:11020**

Kern-Iaberner, Gabriele (with Rosenberger, Gerhard) A note on numbers of the form $n = x^2 + Ny^2$. **86k:11021**

Markovich, O. F. The elementary smoothing method in systems of Diophantine equations of Waring type. (Russian summary) **86h:11029**

Rajwade, A. R. See Katre, S. A., **86k:11020**

Rosenberger, Gerhard See Kern-Iaberner, Gabriele, **86k:11021**

Sibner, R. J. The extended modular group and sums of squares. **86c:11023**

secondary classifications (11D85)

Bateman, P. T. (with Grosswald, Emil) Positive integers expressible as a sum of three squares in essentially only one way. **86f:11082**

Chen, Yun Kui See Li, Bai Tian, **86c:11020**

Golubeva, E. P. Application of the Shimura lift to the problem of representation of large numbers by ternary quadratic forms. (Russian) **86h:11082**

Grosswald, Emil See Bateman, P. T., **86f:11082**

Halter-Koch, Frans An Artin character and representations of primes by binary quadratic forms. III. **86f:11077**

Hirschhorn, M. A simple proof of Jacobi's two-square theorem. **86m:11074**

Kaplan, Pierre (with Williams, Kenneth S.; Yamamoto, Yoshihiko) An application of dihedral fields to representations of primes by binary quadratic forms. **86c:11025**

Laurent, Michel Équations diophantiennes exponentielles. (English summary) [Exponential Diophantine equations] **86d:11028**

Li, Bai Tian (with Chen, Yun Kui) On some unsolvable cases of the Diophantine equation $x^p + y^p + z^p = k$. (Chinese) **86c:11020**

Muskat, Joseph B. On simultaneous representations of primes by binary quadratic forms. **86b:11027**

Teterin, Yu. G. Representation of numbers by ternary quadratic forms over maximal orders of algebraic number fields. (Russian) **86a:11017**

Voss, Michael D. Egyptian fractions. **86b:11024**

Williams, Kenneth S. See Kaplan, Pierre et al., **86c:11025**

Yamamoto, Yoshihiko See Kaplan, Pierre et al., **86c:11025**

11D88 p -adic and power series fields

secondary classifications (11D88)

Schmidt, Wolfgang M. Analytic methods for congruences, Diophantine equations and approximations. **86m:11020**

11D99 None of the above, but in this section

secondary classifications (11D99)

Lang, Serge Vojta's conjecture. **86j:11065**

Pohst, Michael Computation of integral solutions of a special type of systems of quadratic equations. **86k:11079**

Sleeman, B. D. (with Smith, P. D.; Wright, G. P.) Doubly-periodic Floquet theory. **86c:34013**

Smith, P. D. See Sleeman, B. D. et al., **86c:34013**

Wright, G. P. See Sleeman, B. D. et al., **86c:34013**

11Exx Forms and linear algebraic groups {For quadratic forms in linear algebra, see 15A63.}

Scharlau, Winfried ★ Quadratic and Hermitian forms. **86k:11022**

11E04 Quadratic forms over general fields

Adem, José On the Hurwitz problem over an arbitrary field. II. **86a:11014**

Arason, Jón Kr. (with Elman, Richard; Jacob, Bill) The graded Witt ring and Galois cohomology. I. **86g:11020**

Elman, Richard See Arason, Jón Kr. et al., **86g:11020**

Gentile, Enzo R. A note on the u -invariant of fields. **86j:11034**

Jacob, Bill See Arason, Jón Kr. et al., **86g:11020**

Kahn, Bruno La deuxième classe de Stiefel-Whitney d'une représentation régulière. I. (English summary) [The second Stiefel-Whitney class of a regular representation. I] **86a:11015a**

La deuxième classe de Stiefel-Whitney d'une représentation régulière. II. (English summary) [The second Stiefel-Whitney class of a regular representation. II] **86a:11015b**

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Arason, Jón Kr. (with Elman, Richard; Jacob, Bill) Graded Witt rings of elementary type. **86j:11037**

Elman, Richard See Arason, Jón Kr. et al., **86j:11037**

Iwakami, Tatsuo (with Kijima, Daiji; Nishii, Mico) Kaplansky's radical and Hilbert Theorem 90. III. **86j:11040**

Jacob, Bill See Arason, Jón Kr. et al., **86j:11037**

Kijima, Daiji Quadratic extensions of quasi-Pythagorean fields. **86k:12007**

See also Iwakami, Tatsuo et al., **86j:11040**

Nishii, Mico See Iwakami, Tatsuo et al., **86j:11040**

11E08 Quadratic forms over local rings and fields

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Prósyński, Andrzej Gorenstein ideals and quadratic forms. (Russian summary) **86f:13015**

Schmidt, Wolfgang M. Small zeros of quadratic forms. **86j:11035**

11E10 Forms over real fields

Bröcker, Ludwig Minimale Erzeugung von Positivbereichen. [Minimal generation of positive domains] **86c:11024**

Dai, Zong Duo (with Lam, T. Y.) Levels in algebra and topology. **86d:11029**

Delsell, Charles N. Case distinctions are necessary for representing polynomials as sums of squares. **86i:11015**

Lam, T. Y. See Dai, Zong Duo, **86d:11029**

Mahé, Louis Sommes de carrés et anneaux de Witt réduits. (English summary) [Sums of squares and reduced Witt rings] **86a:11016**

Ono, Takaaki On deformations of Hopf maps and hypergeometric series. **86c:11025**

secondary classifications (11E10)

Becker, Eberhard Extended Artin-Schreier theory of fields. **86f:12001**

Delfs, Hans Semialgebraic Borel-Moore-homology. **86g:14010**

Delsell, Charles N. A continuous, constructive solution to Hilbert's 17th problem. **86c:12003**

Elman, Richard (with Prestel, A.) Reduced stability of the Witt ring of a field and its Pythagorean closure. **86f:11030**

Knebusch, Manfred An invitation to real spectra. **86d:14019**

Prestel, A. ★ Lectures on formally real fields. **86h:12013**

See also Elman, Richard, **86f:11030**

11E12 Quadratic forms over global rings and fields

Bugaenko, V. O. Groups of automorphisms of unimodular hyperbolic quadratic forms over the ring $\mathbb{Z}[(\sqrt{5}+1)/2]$. (Russian) **86d:11030**

Byrnes, Christopher I. On a theorem of Hermite and Hurwitz. **86f:11025**

Conner, P. E. (with Perlis, R.) ★ A survey of trace forms of algebraic number fields. **86g:11021**

Kneser, M. Representations of integral quadratic forms. **86c:11024**

Perlis, R. See Conner, P. E., **86g:11021**

Schmidt, Wolfgang M. Small zeros of quadratic forms. **86j:11035**

Sondergeld, Klaus-Peter Witt's theorem for square-free lattices over dyadic discrete valuation rings. **86d:11031**

Teterin, Yu. G. Representation of numbers by ternary quadratic forms over maximal orders of algebraic number fields. (Russian) **86a:11017**

Waterhouse, William C. Composition and genera of norm-type forms. **86a:11018**

secondary classifications (11E12)

Lenstra, H. W., Jr. On the calculation of regulators and class numbers of quadratic fields. **86g:11080**

Moros, B. Z. On the distribution of integral and prime divisors with equal norms. (French summary) **86c:11075**

Nikulin, V. V. $K3$ surfaces with a finite group of automorphisms and a Picard group of rank three. (Russian) **86e:14018**

Raghavan, Srinivasacharya A duality for representation by quadratic forms. **86f:11048**

Wright, David J. The adelic zeta function associated to the space of binary cubic forms. I. Global theory. **86k:11023**

11E16 General binary quadratic forms

- Kaplan, Pierre (with Williams, Kenneth S.; Yamamoto, Yoshihiko) An application of dihedral fields to representations of primes by binary quadratic forms. **86e:11025**
- Mahler, Kurt On Thue's theorem. **86h:11030**
- Muskat, Joseph B. On simultaneous representations of primes by binary quadratic forms. **86e:11037**
- Williams, Kenneth S. See Kaplan, Pierre et al., **86e:11025**
- Wolfskill, J. A note concerning reduced algebraic numbers and equivalence of binary forms. **86f:11026**
- Yamamoto, Yoshihiko See Kaplan, Pierre et al., **86e:11025**

secondary classifications (11E16)

- Buell, Duncan A. (with Hudson, Richard H.; Williams, Kenneth S.) Extension of a theorem of Cauchy and Jacobi. **86h:11003**
- Hooley, C. On the Pellian equation and the class number of indefinite binary quadratic forms. **86d:11033**
- Hudson, Richard H. See Buell, Duncan A. et al., **86h:11003**
- Ong, Heidrun E. (with Schnorr, C.-P.) Signatures through approximate representations by quadratic forms (extended abstract). **86i:94043**
- Schnorr, C.-P. See Ong, Heidrun E., **86i:94043**
- Williams, Kenneth S. See Buell, Duncan A. et al., **86h:11003**

11E20 General ternary and quaternary quadratic forms

secondary classifications (11E20)

- Bresciani, Julius Arithmetical quadratic surfaces of genus 0. II. **86f:14009**

11E25 Sums of squares; other particular quadratic forms

secondary classifications (11E25)

- Shapiro, Daniel B. On the Hurwitz problem over an arbitrary field. **86k:12006**

11E39 Bilinear and Hermitian forms

- Bini, Werner Subspaces in Hermitian spaces of countable dimension. II. **86e:11026**
- Lam, Kee Yuen Topological methods for studying the composition of quadratic forms. **86m:11021**

Some new results on composition of quadratic forms. **86e:11027**

- Zhu, Fu Zu An existence theorem for positive definite unimodular even Hermitian forms, and its generalization. (Chinese) **86b:11028**

secondary classifications (11E39)

- Adem, José On the Hurwitz problem over an arbitrary field. II. **86e:11014**
- Bayer-Fluckiger, Eva Cancellation of hyperbolic ϵ -Hermitian forms and of simple knots. **86k:57017**
- Fröhlich, Albrecht \star Classgroups and Hermitian modules. **86g:11064**
- Hahn, Alexander J. A Hermitian Morita theorem for algebras with anti-structure. **86j:18010**
- Lempel, Abraham See Seroussi, G., **86g:11076**
- Platonov, V. P. (with Yanchevskii, V. I.) Dieudonné's conjecture on the structure of unitary groups over a skew-field and Hermitian K -theory. (Russian) **86h:12004**
- Seroussi, G. (with Lempel, Abraham) On symmetric algorithms for bilinear forms over finite fields. **86g:11076**
- Yanchevskii, V. I. See Platonov, V. P., **86h:12004**

11E41 Class numbers of quadratic and Hermitian forms

- Hashimoto, Ki-ichiro A formula for the number of semisimple conjugacy classes in the arithmetic subgroups. **86h:11031**
- Hooley, C. On the Pellian equation and the class number of indefinite binary quadratic forms. **86d:11032**

secondary classifications (11E41)

- Bayer-Fluckiger, Eva Definite unimodular lattices having an automorphism of given characteristic polynomial. **86k:11032**
- Buell, Duncan A. (with Hudson, Richard H.; Williams, Kenneth S.) Extension of a theorem of Cauchy and Jacobi. **86h:11003**
- Hudson, Richard H. See Buell, Duncan A. et al., **86h:11003**
- Ono, Takashi A generalization of Gauss's theorem on the genera of quadratic forms. **86k:11024**
- Williams, Kenneth S. See Buell, Duncan A. et al., **86h:11003**
- Wright, David J. The adelic zeta function associated to the space of binary cubic forms. I. Global theory. **86k:11023**

11E45 Analytic theory (Epstein zeta functions; relations with automorphic forms and functions)

- Bartels, Hans-Jochen Uniform distribution in linear algebraic groups and related Diophantine problems. **86f:11027**
- Beridse, R. I. Formulas for the number of representations of integers by reduced nondiagonal positive quaternary forms belonging to one-class genera. (Russian. English and Georgian summaries) **86b:11029**
- Chen, Zhi Jie Zeta-functions associated with prehomogeneous vector spaces and Gaussian sums. (Chinese) **86j:11036**
- Faraut, J. See Satake, Ichirô, **86a:11019**
- Satake, Ichirô (with Faraut, J.) The functional equation of zeta distributions associated with formally real Jordan algebras. **86a:11019**

- Sulakvelidse, L. A. The number of representations of numbers by certain regular and semiregular ternary quadratic forms belonging to multiclass genera. II. (Russian) **86f:11028**

- Wright, David J. The adelic zeta function associated to the space of binary cubic forms. I. Global theory. **86k:11023**

- Yü, Wen Ch'ing A zeta-function associated with zero ternary forms. **86g:11022**

secondary classifications (11E45)

- Andrianov, A. N. Integral representations of quadratic forms by quadratic forms: multiplicative properties. **86j:11054**
- Hecke operators and representations of binary quadratic forms. (Russian) **86a:11022**
- Bykovskii, V. A. Arithmetic-analytic properties of binary positive definite quadratic forms. (Russian) **86j:11046**
- Christian, Ulrich Maaßeche L -Reihen und eine Identität für Gaußsche Summen. [Maass L -series and an identity for Gauss sums] **86h:11041**
- Eisenstein series for congruence subgroups of $GL(n, \mathbb{Z})$. **86j:11062**
- Gyoja, Akihiko (with Kawanaka, Noriaki) Gauss sums of prehomogeneous vector spaces. **86j:11119**
- Ishikawa, Hirofumi Extended Epstein's zeta functions over CM-fields. **86g:11067**
- Kawanaka, Noriaki See Gyoja, Akihiko, **86j:11119**
- Prado, Humberto Représentations de $GL(2, \mathbb{R})$ et identités de type Barnes pour la fonction Γ . (English summary) [Representations of $GL(2, \mathbb{R})$ and Barnes-type identities for the Γ -function] **86c:22023**
- Schulze-Pillot, Rainer Thetareihen positiv definiter quadratischer Formen. [Theta series of positive definite quadratic forms] **86d:11042**
- Yoshida, Hiroyuki On Siegel modular forms obtained from theta series. **86a:11036**

11E57 Classical groups [See also 14Lxx, 20Gxx.]

- Bondarenko, A. A. Classification of maximal arithmetic subgroups of indefinite orthogonal groups of type (B_l) . (Russian) **86g:11023**
- Platonov, V. P. (with Yanchevskii, V. I.) Dieudonné's conjecture on the structure of unitary groups and skew fields over Hensel fields. (Russian) **86c:11026**
- Yanchevskii, V. I. See Platonov, V. P., **86c:11026**

secondary classifications (11E57)

- An, Jian Bei The structure of symplectic groups and two-dimensional linear groups over a class of commutative rings. (Chinese) **86i:20065**
- Hée, Jean-Yves Groupes de Chevalley et groupes classiques. (French) [Chevalley groups and classical groups] **86d:20054**
- Ishibashi, Hiroyuki Small systems of generators of isotropic unitary groups over finite fields of characteristic not two. **86f:20050**
- Kostrikin, A. I. (with Kostrikin, I. A.; Ufnarovskii, V. A.) Invariant lattices of type G_2 and their groups of automorphisms. (Russian) **86g:11039**
- Kostrikin, I. A. See Kostrikin, A. I. et al., **86g:11039**
- Nikulin, V. V. (with Shafarevich, I. R.) \star Геометрия и группы. (Russian) [Geometries and groups] **86f:51021**
- Riehm, C. Explicit spin representations and Lie algebras of Heisenberg type. **86c:17010**
- Shafarevich, I. R. See Nikulin, V. V., **86f:51021**
- Ufnarovskii, V. A. See Kostrikin, A. I. et al., **86g:11039**
- Vaserstein, L. N. Classical groups over rings. **86d:20056**

11E72 Galois cohomology of linear algebraic groups [See also 20G10.]

- Hürlimann, W. On algebraic tori of norm type. **86h:11033**
- Oesterlé, Joseph Nombres de Tamagawa et groupes unipotents en caractéristique p . [Tamagawa numbers and unipotent groups in characteristic p] **86i:11016**
- Ono, Takashi A generalization of Gauss's theorem on the genera of quadratic forms. **86k:11024**

secondary classifications (11E72)

- Bürgisser, B. (with Eckmann, Beno) The p -periodicity of the groups $GL(n, \mathcal{O}_S(K))$ and $SL(n, \mathcal{O}_S(K))$. **86a:20061**
- Eckmann, Beno See Bürgisser, B., **86a:20061**

11E76 Forms of degree higher than two

- Alemu, Yisawaw On zeros of forms over local fields. **86i:11017**
- Ayad, Mohamed Automorphismes d'une forme binaire cubique et représentation d'entiers. (English summary) [Automorphisms of a binary cubic form and representation of integers] **86e:11028**
- Baker, R. C. Small solutions of congruences. **86c:11027**
- Halle, Darrell E. On the Clifford algebra of a binary cubic form. **86c:11028**
- Waterhouse, William C. Composition of norm-type forms. **86b:11030**

secondary classifications (11E76)

- Browkin, Jerzy On systems of congruences. (Russian summary) **86a:11013**
- Hooley, C. Some recent advances in analytical number theory. **86j:11033**
- Lewis, Donald J. (with Schulze-Pillot, Rainer) Linear spaces on the intersection of cubic hypersurfaces. **86b:11025**
- Petersson, Holger P. Generic reducing fields of Jordan pairs. **86i:17010**
- Schulze-Pillot, Rainer See Lewis, Donald J., **86b:11025**

- 11E81 Algebraic theory of quadratic forms; Witt groups and rings
[See also 19G12, 19G24.]

Arason, Jón Kr. A proof of Merkurjev's theorem. 86f:11029
(with Elman, Richard; Jacob, Bill) Graded Witt rings of elementary type. 86j:11037
Baesa, Ricardo On the Arf invariant of quadratic forms and of knots. 86j:11038
(with Morese, Remo) On the Witt-equivalence of fields of characteristic 2. 86j:11039
Becker, Eberhard (with Rosenberg, Alex) Reduced forms and reduced Witt rings of higher level. 86e:11029
Boe, Rikbert ★ Quadratic forms, orderings and abstract Witt rings. 86h:11033
Elman, Richard (with Prestel, A.) Reduced stability of the Witt ring of a field and its Pythagorean closure. 86f:11030
See also Arason, Jón Kr. et al., 86j:11037
Iwakami, Tatsuo (with Kijima, Daiji; Nishi, Mico) Kaplansky's radical and Hilbert Theorem 90. III. 86j:11040
Jacob, Bill See Arason, Jón Kr. et al., 86j:11037
Kijima, Daiji See Iwakami, Tatsuo et al., 86j:11040
Morese, Remo See Baesa, Ricardo, 86j:11039
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Pardon, William A relation between Witt groups and zero-cycles in a regular ring. 86f:11031
Pfister, Albrecht Systems of quadratic forms. II. 86e:11030
Prestel, A. See Elman, Richard, 86f:11030
Rosenberg, Alex See Becker, Eberhard, 86e:11029
Shapiro, Daniel B. Products of sums of squares. 86h:11034
Tena Ayuso, Juan Computation of certain Witt rings. (Spanish. English summary) 86h:11035

Witt rings of fields of formal power series. (Spanish. English summary) 86a:11020

secondary classifications (11E81)

Arason, Jón Kr. (with Elman, Richard; Jacob, Bill) The graded Witt ring and Galois cohomology. I. 86j:11020
Brumfiel, G. W. Witt rings and K -theory. 86h:18004
Delfs, Hans (with Knebusch, Manfred) An introduction to locally semialgebraic spaces. 86c:12003
(with Knebusch, Manfred) Basic homotopy theory of locally semialgebraic spaces. 86c:57038
The homotopy axiom in semialgebraic cohomology. 86h:14016
Elman, Richard See Arason, Jón Kr. et al., 86j:11020
Gentile, Enzo R. A note on the u -invariant of fields. 86j:11034
Grunenfelder, Lutz Clifford k -algebras and k^* -groups. 86c:13009
Jacob, Bill See Arason, Jón Kr. et al., 86j:11020
James, Donald G. On the geometry of symmetric and alternating forms. 86a:20050
Kahn, Bruno Classes de Stiefel-Whitney de formes quadratiques et de représentations galoisiennes réelles. [Stiefel-Whitney classes of quadratic forms and real Galois representations] 86g:12011
Knebusch, Manfred See Delfs, Hans, 86c:12003 and 86c:57038
Kneser, M. Representations of integral quadratic forms. 86e:11024
Kreck, M. ★ Bordism of diffeomorphisms and related topics. 86b:57015
Lam, T. Y. An introduction to real algebra. 86j:12013
Mahé, Louis Sommes de carrés et anneaux de Witt réduits. (English summary) [Sums of squares and reduced Witt rings] 86a:11016
Oh, Hae Soo The Witt classes of torsion linking forms of $(4n-1)$ -manifolds with pseudofree circle actions. 86b:57031
Pfister, Albrecht Some remarks on the historical development of the algebraic theory of quadratic forms. 86b:11002
Rao, Ravi A. Extendability of quadratic modules with sufficient Witt index. II. 86d:13010
Serre, Jean-Pierre L'invariant de Witt de la forme $\text{Tr}(x^2)$. [The Witt invariant of the form $\text{Tr}(x^2)$] 86k:11067
Snaitch, Victor Stiefel-Whitney classes of a symmetric bilinear form—a formula of Serre. 86j:12008
Sondergeld, Klaus-Peter Witt's theorem for square-free lattices over dyadic discrete valuation rings. 86d:11031
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Tschimmel, Angelika Lokal-Global Prinzipien für Anordnungen bewerteter Schiefkörper. [Local-global principles for orderings of valued skew fields] 86f:12005
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- 11E88 Quadratic spaces; Clifford algebras [See also 15A63, 15A66.]

Fassler-Ullmann, Angela On nonclassical Hilbert spaces. 86f:11032
Krus, M.-A. (with Paques, A.) Quadratic spaces with trivial Arf invariant. 86g:11024
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Yuzvinsky, Sergey On the Hopf condition over an arbitrary field. 86b:11031

- 11E92 Integer matrices [See also 15A36.]

secondary classifications (11E92)

Kneser, M. Representations of integral quadratic forms. 86e:11024
Sondergeld, Klaus-Peter Witt's theorem for square-free lattices over dyadic discrete valuation rings. 86d:11031

- 11E95 p -adic theory

secondary classifications (11E95)

Alemu, Yilmaw On zeros of forms over local fields. 86i:11017
Schmidt, Wolfgang M. Analytic methods for congruences, Diophantine equations and approximations. 86m:11020

- 11E99 None of the above, but in this section

secondary classifications (11E99)

Bugaenko, V. O. Groups of automorphisms of unimodular hyperbolic quadratic forms over the ring $\mathbb{Z}[(\sqrt{5}+1)/2]$. (Russian) 86d:11030
Leop, D. B. (with Schmidt, Wolfgang M.) Systems of homogeneous equations. 86c:11020
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- 11Fxx Discontinuous groups and automorphic forms [See also 11R39, 11S37, 14Gxx, 14Kxx, 22E50, 22E55, 30F35, 32Nxx; for relations with quadratic forms, see 11E45.]

Lang, Serge ★ Эллиптические функции. (Russian) [Elliptic functions] 86c:11029
(Stepanov, S. A.) See Lang, Serge, 86c:11029

- 11F03 Modular and automorphic functions

Andrianov, A. N. Hecke operators and representations of binary quadratic forms. (Russian) 86a:11022
Gross, Benedict H. (with Zagier, Don Bernard) On singular moduli. 86j:11041
Halbritter, Ulrich Anwendung einer Summationsformel auf Dirichletsche Reihen und verallgemeinerte Dedekindsche Summen. [Application of a summation formula to Dirichlet series and generalized Dedekind sums] 86b:11033
Lehner, J. (with Sheingorn, M.) Simple closed geodesics on $H^+/T(3)$ arise from the Markov spectrum. 86b:11033
Sheingorn, M. See Lehner, J., 86b:11033
Venkov, A. B. Construction of the "Hauptfunktion", solution of Schwarz and Fuchs equations for a surface of genus zero by the method of the spectral theory of automorphic functions. (Russian. English summary) 86h:11036
Zagier, Don Bernard See Gross, Benedict H., 86j:11041

secondary classifications (11F03)

Cox, David A. The arithmetic-geometric mean of Gauss. 86a:01027
El Amrani, Mohammed Singularités des fonctions obtenues par intégration sur la fibre $X^2 - Y^3 = s$, et identités modulaires. (English summary) [Singularities of functions obtained by integration on the fiber $X^2 - Y^3 = s$, and modular identities] 86j:33022
Perelli, A. On some exponential sums connected with Ramanujan's r -function. 86c:11062
Tukia, P. Automorphic quasimeromorphic mappings for torsionless hyperbolic groups. 86k:30023

- 11F06 Structure of modular groups and generalizations; arithmetic groups
[See also 20H05, 20H10, 22E40.]

Carter, David (with Keller, Gordon) Elementary expressions for unimodular matrices. 86a:11023
Keller, Gordon See Carter, David, 86a:11023
Lehner, J. (with Sheingorn, M.) Computing self-intersections of closed geodesics on finite-sheeted covers of the modular surface. 86e:11031
Liehl, Bernhard Beschränkte Wortlänge in SL_2 . [Bounded word length in SL_2] 86b:11034
Phillips, Ralph S. (with Sarnak, P.) On the spectrum of the Hecke groups. 86j:11042
Rieger, G. J. Zur Kreisfigur von Ford und Speiser. [On the circular figure of Ford and Speiser] 86k:11025
Sarnak, P. See Phillips, Ralph S., 86j:11042
Sheingorn, M. See Lehner, J., 86e:11031
Stothers, W. W. Level and index in the modular group. 86d:11033
Varopoulos, N. Th. Groupes fuchsien de type fini. (English summary) [Finitely generated Fuchsian groups] 86m:11022

secondary classifications (11F06)

Borel, A. (with Casselman, William) Cohomologie d'intersection et L^2 -cohomologie de variétés arithmétiques de rang rationnel 2. (English summary) [Intersection cohomology and L^2 -cohomology of arithmetic varieties of rational rank 2] 86m:22015
Casselman, William See Borel, A., 86m:22015
Chahal, Jasbir Singh Arithmetic subgroups of algebraic groups. 86b:22019
Cohen, Jeffrey Mitchell Homomorphisms of cocompact Fuchsian groups on $PSL_2(\mathbb{Z}_p[z]/(f(z)))$. 86b:20055
MacLachlan, C. On the structure of certain arithmetic subgroups of $SL_2(\mathbb{R})$. 86e:22018
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Peterson, Hans Über die orthogonale Zerlegung von Formensystemen der rationalen Modulgruppe. [On the orthogonal decomposition of families of forms of the rational modular group] 86m:11027
Rohlf, Jürgen On the cuspidal cohomology of the Bianchi modular groups. 86e:11042
Sibner, R. J. The extended modular group and sums of squares. 86c:11023
Waterman, P. L. (with MacLachlan, C.) Fuchsian groups and algebraic number fields. 86f:20055

11F11 Modular forms, one variable

- Antoniadis, Jannis A. Über die Berechnung von Multiplikatorgleichungen. [The computation of multiplier equations] **86b:11035**
- Araud, Bertrand Interpolation p -adique d'un produit de Rankin. (English summary) [p -adic interpolation of a Rankin product] **86b:11036**
- Beukers, F. Arithmetical properties of Picard-Fuchs equations. (See **86f:11006**)
- Chuman, Yasuhiro On the Fourier coefficients of Eisenstein series for $\Gamma_0(N)$. **86m:11023**
- Deshouillers, J.-M. (with Iwaniec, Henryk; Phillips, Ralph S.; Sarnak, P.) Maass cusp forms. **86m:11024**
- Eichler, M. Die Spur der Hecke-Operatoren in gewissen Räumen von Jacobischen Modulformen. [The trace of Hecke operators in certain spaces of Jacobi modular forms] **86m:11025**
- (with Zagier, Don Bernard) ★ The theory of Jacobi forms. **86j:11043**
- Grupp, F. Eine Bemerkung zur Ramanujanschen τ -Funktion. [A remark on the Ramanujan τ -function] **86k:11026**
- Hejhal, Dennis A. Sur certaines séries de Poincaré relatives associées à des éléments hyperboliques primitifs de $\mathrm{PSL}(2, \mathbb{Z})$. (English summary) [Some relative Poincaré series associated with primitive hyperbolic elements in $\mathrm{PSL}(2, \mathbb{Z})$] **86g:11025**
- Iwaniec, Henryk See Deshouillers, J.-M. et al., **86m:11024**
- Kohnen, Winfried Fourier coefficients of modular forms of half-integral weight. **86i:11018**
- Kolke, Masao Higher reciprocity law, modular forms of weight 1 and elliptic curves. **86j:11044**
- Mason, Geoffrey Modular forms and the theory of Thompson series. (See **86j:20003**)
- Petersson, Hans Über Rangbestimmungen im Bereich der Modulformen vom Gewicht 1 der rationalen Modulgruppe. [On determinations of rank in the study of modular forms of weight 1 of the rational modular group] **86m:11028**
- Über gewisse Dirichlet-Reihen mit Eulerscher Produktzerlegung. [On certain Dirichlet series with Eulerian product decomposition] **86d:11034**
- Phillips, Ralph S. See Deshouillers, J.-M. et al., **86m:11024**
- Rohrich, David E. Weierstrass points and modular forms. **86e:11032**
- Sarnak, P. See Deshouillers, J.-M. et al., **86m:11024**
- Scholl, A. J. Modular forms and de Rham cohomology: Atkin-Swinnerton-Dyer congruences. **86j:11045**
- Zagier, Don Bernard See Eichler, M., **86j:11043**

secondary classifications (11F11)

- Barth, Wolf Paul (with Hulek, K.) Projective models of Shioda modular surfaces. **86j:14034**
- Doi, Koji (with Hida, Haruzo; Maeda, Yoshitaka) Transformation equations and the special values of Shimura's zeta functions. **86k:11028**
- Friedberg, Solomon Differential operators and theta series. **86d:11036**
- Hida, Haruzo See Doi, Koji et al., **86k:11028**
- Hulek, K. See Barth, Wolf Paul, **86j:14034**
- Kamleny, S. Rational points on modular curves and abelian varieties. **86j:11061**
- Katz, Nicholas M. (with Masur, Barry) ★ Arithmetic moduli of elliptic curves. **86i:11024**
- Kra, Irwin Bases for cusp forms for quasi-Fuchsian groups. **86k:30053**
- Maeda, Yoshitaka See Doi, Koji et al., **86k:11028**
- Masur, Barry See Katz, Nicholas M., **86i:11024**
- Mestre, Jean-François Courbes de Weil de conducteur 5077. (English summary) [Weil curves of conductor 5077] **86c:11041**
- Momose, Fumiyuki Rational points on the modular curves $X_{\mathrm{split}}(p)$. **86j:11064**
- Zagier, Don Bernard Modular parametrizations of elliptic curves. **86m:11041**

11F12 Automorphic forms, one variable

- Bykovskii, V. A. Arithmetico-analytical properties of binary positive definite quadratic forms. (Russian) **86j:11046**
- Galgalas, Ž. Poincaré series. (Russian. English and Lithuanian summaries) **86f:11033**
- Ishii, Noburo Cusp forms of weight one, quartic reciprocity and elliptic curves. **86j:11047**
- Karel, Martin L. Special values of elliptic modular forms. **86f:11034**
- Katok, Svetlana Closed geodesics, periods and arithmetic of modular forms. **86j:11048**
- Petersson, Hans Über die orthogonale Zerlegung von Formenschemen der rationalen Modulgruppe. [On the orthogonal decomposition of families of forms of the rational modular group] **86m:11027**
- Pohl, Christine (with Rosenberger, Gerhard; Schoofs, Angela) Arithmetische Eigenschaften von Eisenstein-Reihen zu den Hecke-Gruppen $G(\sqrt{2})$ und $G(\sqrt{3})$. [Arithmetic properties of Eisenstein series for the Hecke groups $G(\sqrt{2})$ and $G(\sqrt{3})$] **86g:11026**
- Rankin, R. A. The construction of automorphic forms from the derivatives of a given form. II. **86i:11019**
- Rosenberger, Gerhard See Pohl, Christine et al., **86g:11026**
- Schoofs, Angela See Pohl, Christine et al., **86g:11026**
- Wolfart, Jürgen Taylorentwicklungen automorpher Formen und ein Transzendenzproblem aus der Uniformisierungstheorie. (English summary) [Taylor expansions of automorphic forms and a transcendence problem from uniformization theory] **86d:11035**

secondary classifications (11F12)

- Deshouillers, J.-M. (with Iwaniec, Henryk; Phillips, Ralph S.; Sarnak, P.) Maass cusp forms. **86m:11024**
- Furusawa, Masaki On Petersson norms for some liftings. **86f:11038**
- Hejhal, Dennis A. Sur certaines séries de Poincaré relatives associées à des éléments hyperboliques primitifs de $\mathrm{PSL}(2, \mathbb{Z})$. (English summary) [Some relative Poincaré series associated with primitive hyperbolic elements in $\mathrm{PSL}(2, \mathbb{Z})$] **86g:11025**
- Iwaniec, Henryk See Deshouillers, J.-M. et al., **86m:11024**
- Kra, Irwin On the vanishing of and spanning sets for Poincaré series for cusp forms. **86b:30070**

- Kravtsev, S. V. Tsuji's estimate for the counting function of orbits of Fuchsian groups. (Russian) **86j:30065**
- Murty, Maruti Ram (with Murty, V. Kumar) An analogue of the Erdős-Kac theorem for Fourier coefficients of modular forms. **86d:11039**
- Murty, V. Kumar See Murty, Maruti Ram, **86d:11039**
- Phillips, Ralph S. See Deshouillers, J.-M. et al., **86m:11024**
- Platetski-Shapiro, Ilja Isailovitch Work of Waldspurger. **86g:11030**
- Sarnak, P. See Deshouillers, J.-M. et al., **86m:11024**

11F20 Dedekind eta function, Dedekind sums

- Drienecourt, Y. Sur les sommes de Dedekind attachées aux groupes de congruence. (English summary) [Dedekind sums associated with congruence groups] **86c:11030**
- Nagasaka, Chiaki Dedekind type sums and Hecke operators. **86i:11020**
- On generalized Dedekind sums attached to Dirichlet characters. **86f:11035**
- Sczech, Robert Dedekindsummen mit elliptischen Funktionen. [Dedekind sums with elliptic functions] **86h:11037**

secondary classifications (11F20)

- Toyoizumi, Masao On certain infinite products. II. **86b:11042**

11F22 Relationship to Lie algebras and finite simple groups

secondary classifications (11F22)

- Fujii, A. A zeta function connected with the eigenvalues of the Laplace-Beltrami operator on the fundamental domain of the modular group. **86c:11074**
- Kondo, Takeshi The automorphism group of Leech lattice and elliptic modular functions. **86k:11033**

11F25 Hecke-Petersson operators, differential operators (1 variable)

- Friedberg, Solomon Differential operators and theta series. **86d:11036**

11F27 Theta series; Weil representation

- Friedberg, Solomon Theta function transformation formulas and the Weil representation. **86h:11038**
- Lin, Ts'ung Yüan On the theta transformation formula for the theta group of genus 2. **86d:11037**
- Rallia, S. Injectivity properties of liftings associated to Weil representations. **86d:11038**

secondary classifications (11F27)

- Andrianov, A. N. Integral representations of quadratic forms by quadratic forms: multiplicative properties. **86j:11054**
- Representations of an even zeta function by theta series. (Russian) **86c:11034**
- Auslander, L. (with Tolimieri, R.) Nilpotent groups and abelian varieties. **86h:22011**
- Eichler, M. Die Spur der Hecke-Operatoren in gewissen Räumen von Jacobischen Modulformen. [The trace of Hecke operators in certain spaces of Jacobi modular forms] **86m:11025**
- (with Zagier, Don Bernard) ★ The theory of Jacobi forms. **86j:11043**
- Gritsenko, V. A. Construction of Hermitian modular forms of genus 2 from cusp forms of genus 1. (Russian) **86i:11022**
- Kac, Victor G. (with Peterson, Dale H.) Infinite-dimensional Lie algebras, theta functions and modular forms. **86a:17007**
- Patterson, S. J. Whittaker models of generalized theta series. **86f:11044**
- Peterson, Dale H. See Kac, Victor G., **86a:17007**
- Prado, Humberto Représentations de $\mathrm{GL}(2, \mathbb{R})$ et identités de type Barnes pour la fonction Γ . (English summary) [Representations of $\mathrm{GL}(2, \mathbb{R})$ and Barnes-type identities for the Γ -function] **86c:22023**
- Schulze-Pillot, Rainer Thetareihen positiv definiter quadratischer Formen. [Theta series of positive definite quadratic forms] **86d:11042**
- Tolimieri, R. See Auslander, L., **86h:22011**
- Zagier, Don Bernard See Eichler, M., **86j:11043**

11F30 Fourier coefficients of automorphic forms

- Kuznetsov, N. V. Convolution of Fourier coefficients of Eisenstein-Maass series. (Russian. English summary) **86h:11039**
- Murty, Maruti Ram (with Murty, V. Kumar) An analogue of the Erdős-Kac theorem for Fourier coefficients of modular forms. **86d:11039**
- Murty, V. Kumar See Murty, Maruti Ram, **86d:11039**
- Scholl, A. J. Fourier coefficients of Eisenstein series on noncongruence subgroups. **86m:11028**

secondary classifications (11F30)

- Andrianov, A. N. Integral representations of quadratic forms by quadratic forms: multiplicative properties. **86j:11054**
- Chuman, Yasuhiro On the Fourier coefficients of Eisenstein series for $\Gamma_0(N)$. **86m:11023**
- Goldfeld, Dorian (with Hoffstein, Jeffrey) Eisenstein series of $\frac{1}{2}$ -integral weight and the mean value of real Dirichlet L -series. **86m:11029**
- Hoffstein, Jeffrey See Goldfeld, Dorian, **86m:11029**
- Kitaoka, Yoshiyuki Fourier coefficients of Eisenstein series of degree 3. **86d:11041**
- Perelli, A. On some exponential sums connected with Ramanujan's τ -function. **86c:11062**

- 11F33 Congruences for modular and p -adic modular forms [See also 14G20, 22E50.]
- Sato, Takakazu On differential operators and congruences for Siegel modular forms of degree two. **86f:11036**
- secondary classifications (11F33)
- Mason, Geoffrey Modular forms and the theory of Thompson series. (See **86j:20003**)
- 11F35 Ramanujan τ -function
- Perelli, A. Exponential sums and mean-value theorems connected with Ramanujan's τ -function. **86i:11021**
- 11F37 Forms of half-integer weight; nonholomorphic modular forms
- Goldfeld, Dorian (with Hoffstein, Jeffrey) Eisenstein series of $\frac{1}{2}$ -integral weight and the mean value of real Dirichlet L -series. **86m:11029**
- Hoffstein, Jeffrey See Goldfeld, Dorian, **86m:11029**
- 11F41 Hilbert and Hilbert-Siegel modular groups and their modular and automorphic forms; Hilbert modular surfaces [See also 14J20.]
- Baily, Walter L., Jr. Arithmetic Hilbert modular forms. **86c:11031**
- Cogdell, J. W. Arithmetic cycles on Picard modular surfaces and modular forms of Nebentypus. **86m:11030**
- Feng, Ke Qin On arithmetic genus of Hilbert modular varieties on cyclic number fields. **86d:11040**
- Müller, Werner Signature defects of cusps of Hilbert modular varieties and values of L -series at $s = 1$. **86j:11049**
- Naganuma, Hidehisa On the character of order two attached to Hammond's modular imbedding over real quadratic fields. **86c:11032**
- Ohta, Masami Hilbert modular forms of weight one and Galois representations. **86c:11033**
- Tai, Yung-Sheng Pluricanonical differentials of Hilbert modular varieties. **86e:11033**
- Tsuymine, Shigeaki On the Kodaira dimensions of Hilbert modular varieties. **86h:11040**
- secondary classifications (11F41)
- Atiyah, Michael (with Donnelly, Harold; Singer, I. M.) Eta invariants, signature defects of cusps, and values of L -functions. **86g:58134a**
- (with Donnelly, Harold; Singer, I. M.) Signature defects of cusps and values of L -functions: the nonsplit case. Addendum to: "Eta invariants, signature defects of cusps, and values of L -functions". **86g:58134b**
- Berndt, Rolf Sur l'arithmétique du corps des fonctions elliptiques de niveau N . [The arithmetic of the field of elliptic functions of level N] (See **86f:11006**)
- Donnelly, Harold See Atiyah, Michael et al., **86g:58134a** and **86g:58134b**
- Hasama, Fumio Algebraic cycles on certain abelian varieties and powers of special surfaces. **86k:14004**
- Nakamura, Iku Infinitesimal deformations of cusp singularities. **86b:14001**
- Oda, Takayuki Hodge structures of Shimura varieties attached to the unit groups of quaternion algebras. **86j:11055**
- Singer, I. M. See Atiyah, Michael et al., **86g:58134a** and **86g:58134b**
- 11F46 Siegel modular groups and their modular and automorphic forms
- Andrianov, A. N. Representations of an even zeta function by theta series. (Russian) **86e:11034**
- Böcherer, Siegfried Über die Fourierkoeffizienten der Siegelschen Eisensteinreihen. (English summary) [On the Fourier coefficients of Siegel's Eisenstein series] **86b:11037**
- Über die Fourier-Jacobi-Entwicklung Siegelscher Eisensteinreihen. II. [On the Fourier-Jacobi expansion of Siegel Eisenstein series. II] **86f:11037**
- Christian, Ulrich Maassche L -Reihen und eine Identität für Gaußsche Summen. [Maass L -series and an identity for Gauss sums] **86h:11041**
- Evdokimov, S. A. Action of an irregular Hecke operator with number p on the theta-series of a quadratic form. (Russian) **86g:11027**
- Faltings, Gerd Arithmetic varieties and rigidity. **86j:11050**
- Fomenko, O. M. Fourier coefficients of Siegel cusp forms of genus n . (Russian) **86h:11042**
- Furusawa, Masaaki On Peterson norms for some liftings. **86f:11038**
- Garrett, Paul B. Pullbacks of Eisenstein series; applications. **86f:11039**
- Hashimoto, Ki-ichiro On certain elliptic conjugacy classes of the Siegel modular group. **86m:11031**
- Kitaoka, Yoshiyuki Dirichlet series in the theory of Siegel modular forms. **86b:11038**
- Fourier coefficients of Eisenstein series of degree 3. **86d:11041**
- Klingen, Helmut On Eisenstein series and some applications. **86b:11039**
- Kohnen, Winfried On the Peterson norm of a Siegel-Hecke eigenform of degree two in the Maass space. **86j:11051**
- Lin, Ts'ung Yüan See Yü, Wên Ch'ing, **86k:11027**
- Mizumoto, Shin-ichiro Fourier coefficients of generalized Eisenstein series of degree two. II. **86b:11040**
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- p -adic height pairings. II. **86j:11063**

secondary classifications (11G10)

- André, Yves Sur certaines algèbres de Lie associées aux schémas abéliens. (English summary) [On certain Lie algebras associated with abelian schemes] **86e:14019**
- Berry, T. G. Detecting torsion divisors on curves of genus 2. **86j:14033**
- Bosch, Siegfried (with Lütkebohmert, Werner) Stable reduction and uniformization of abelian varieties. II. **86j:14040b**
- (with Lütkebohmert, Werner) Stable reduction and uniformization of abelian varieties. I. **86j:14040a**
- Coleman, Robert F. Torsion points on curves and p -adic abelian integrals. **86j:14014**
- Dodson, B. The structure of Galois groups of CM-fields. **86i:11063**
- Hasama, Fumio Hodge cycles on abelian varieties of CM-type. **86g:14024**
- Algebraic cycles on certain abelian varieties and powers of special surfaces. **86i:14004**
- Lenstra, H. W., Jr. (with Oort, Frans) Abelian varieties having purely additive reduction. **86e:14020**
- Lütkebohmert, Werner See Bosch, Siegfried, **86j:14040a** and **86j:14040b**
- Morrison, David R. The Kuga-Satake variety of an abelian surface. **86j:14041**
- Oesterlé, Joseph Courbes sur une variété abélienne (d'après M. Raynaud). [Curves on an abelian variety (following M. Raynaud)] **86i:14013**
- Ogus, Arthur F -isocrystals and de Rham cohomology. II. Convergent isocrystals. **86j:14012**
- Oort, Frans See Lenstra, H. W., Jr., **86e:14020**
- Skorobogatov, A. N. The Kuga-Satake variety of a Kummer surface. (Russian) **86j:14043**
- Zarkhin, Yu. G. A finiteness theorem for unpolarized abelian varieties over number fields with prescribed places of bad reduction. **86d:14041**

11G15 Complex multiplication and moduli of abelian varieties

[See also 14K22.]

secondary classifications (11G15)

- Brattström, Gudrun (with Lichtenbaum, Stephen) Jacobi-sum Hecke characters of imaginary quadratic fields. **86h:11104**
- Greenberg, Ralph On the critical values of Hecke L -functions for imaginary quadratic fields. **86e:11111**
- Lichtenbaum, Stephen See Brattström, Gudrun, **86h:11104**
- Robert, Gilles Sur le corps de définition de certaines courbes elliptiques à multiplications complexes. [The field of definition of some elliptic curves with complex multiplications] **86m:11040**

11G16 Elliptic and modular units

- Gekeler, Ernst-Ulrich Le genre des courbes modulaires de Drinfeld. (English summary) [The genus of Drinfel'd modular curves] **86i:11025**

secondary classifications (11G16)

- Goss, David The arithmetic of function fields. II. The "cyclotomic" theory. **86k:11061**
- Hayashi, Helma On elliptic units and class number of a certain non-Galois number field. **86e:11043**

11G18 Arithmetic of modular and Shimura varieties

- Borovoi, M. V. The Langlands conjecture on the conjugation of Shimura varieties. (Russian) **86g:11035**
- Brylinski, J.-L. (with Labesse, J.-P.) Cohomologie d'intersection et fonctions L de certaines variétés de Shimura. [Intersection cohomology and L -functions of some Shimura varieties] **86i:11026**
- Garrett, Paul B. Imbedded modular curves and arithmetic of automorphic forms on bounded symmetric domains. **86i:11027**
- Jordan, Bruce W. p -adic points on Shimura curves. (See **86f:11006**)
- (with Livné, Ron A.) Local Diophantine properties of Shimura curves. **86g:11036**
- Labesse, J.-P. See Brylinski, J.-L., **86i:11026**
- Livné, Ron A. See Jordan, Bruce W., **86g:11036**
- Milne, J. S. The action of an automorphism of C on a Shimura variety and its special points. **86e:11042**
- Momose, Fumiyuki Rational points on the modular curves $X_{\text{split}}(p)$. **86j:11064**
- Silverberg, Alice Finiteness of Mordell-Weil groups of generic abelian varieties. **86b:11044**

secondary classifications (11G18)

- Barth, Wolf Paul (with Hulek, K.) Projective models of Shioda modular surfaces. **86j:14034**
- (Borovoi, M. V.) See Hodge cycles and motives, **86j:14039**
- Hulek, K. See Barth, Wolf Paul, **86j:14034**

- Karel, Martin L. Special values of elliptic modular forms. **86f:11034**

(Manin, Yu. I.) See Hodge cycles and motives, **86j:14039**

- Müller, Werner Signature defects of cusps of Hilbert modular varieties and values of L -series at $s = 1$. **86j:11049**

Norí, Mangala On certain elliptic surfaces with maximal Picard number. **86m:14022**

- Oda, Takayuki Hodge structures of Shimura varieties attached to the unit groups of quaternion algebras. **86j:11055**

Distinguished cycles and Shimura varieties. **86e:11038**

- Skorobogatov, A. N. The Kuga-Satake variety of a Kummer surface. (Russian) **86j:14043**

(Zarkhin, Yu. G.) See Hodge cycles and motives, **86j:14039**

11G20 Curves over finite and local fields

- Agrawal, M. K. See Parnami, J. C. et al., **86e:11046**

- Parnami, J. C. (with Agrawal, M. K.; Rajwade, A. R.) The number of points on the curve $y^2 = x^3 + a$ in F_q and application to local ζ -function. **86e:11046**

Rajwade, A. R. See Parnami, J. C. et al., **86e:11046**

secondary classifications (11G20)

- Coleman, Robert F. Torsion points on curves and p -adic abelian integrals. **86j:14014**
- Jarraud, Pierre Jacobiennes des courbes de Mumford. [Jacobians of Mumford curves] **86g:14016**
- Katsman, G. L. See Vlăduț, Serge G. et al., **86m:11100**
- Schoof, R. J. Elliptic curves over finite fields and the computation of square roots mod p . **86e:11122**
- Tsfasman, M. A. See Vlăduț, Serge G. et al., **86m:11100**
- Vlăduț, Serge G. (with Katsman, G. L.; Tsfasman, M. A.) Modular curves and codes with polynomial complexity of construction. **86m:11100**

11G25 Varieties over finite and local fields

- Boyarsky, Maurizio The Reich trace formula. (French summary) **86m:11043**

- Denef, J. The rationality of the Poincaré series associated to the p -adic points on a variety. **86e:11043**

(Fresnel, Jean) See Boyarsky, Maurizio, **86m:11043**

- Serre, Jean-Pierre Nombres de points des courbes algébriques sur F_q . [Numbers of points of algebraic curves over F_q] **86d:11051**

Waterhouse, William C. The density of supersingular Fermat varieties. **86a:11025**

secondary classifications (11G25)

- Berry, T. G. Detecting torsion divisors on curves of genus 2. **86j:14033**
- Jacobson, Marcel (with Jarden, Moshe) On torsion of abelian varieties over large algebraic extensions of finitely generated fields. **86j:11060**
- Jarden, Moshe See Jacobson, Marcel, **86j:11060**
- Schwarz, Wolfgang Karl (with Waterhouse, William C.) The asymptotic density of supersingular Fermat varieties. **86j:11092**
- Waterhouse, William C. See Schwarz, Wolfgang Karl, **86j:11092**
- Wintenberger, Jean-Pierre Un scindage de la filtration de Hodge pour certaines variétés algébriques sur les corps locaux. [A splitting of the Hodge filtration for certain algebraic varieties over local fields] **86k:14015**

11G30 Curves of arbitrary genus or genus $\neq 1$ over global fields

secondary classifications (11G30)

- Cassels, J. W. S. The arithmetic of certain quartic curves. **86m:11017**
- Hriljac, Paul Heights and Arakelov's intersection theory. **86c:14024**
- Momose, Fumiyuki Rational points on the modular curves $X_{\text{split}}(p)$. **86j:11064**
- Snyder, C. Kummer congruences in formal groups and algebraic groups of dimension one. **86j:14044**
- Stuhler, Ulrich On Drinfel'd's modular curves. **86h:11046**

11G35 Varieties over global fields

- Faltings, Gerd Neuere Fortschritte in der diophantischen Geometrie. [Recent progress in Diophantine geometry] **86i:11028**
- Lang, Serge Vojta's conjecture. **86j:11065**

secondary classifications (11G35)

- Aoki, Noboru On some arithmetic problems related to the Hodge cycles on the Fermat varieties. **86g:14004a**
- Erratum: "On some arithmetic problems related to the Hodge cycles on the Fermat varieties". **86g:14004b**
- Beukers, F. See Stienstra, Jan, **86j:14045**
- Kunyavskii, B. É. (with Tsfasman, M. A.) Zero-cycles on rational surfaces and Néron-Severi tori. (Russian) **86f:14004**
- Laurent, Michel Équations diophantiennes exponentielles. [Exponential Diophantine equations] (See **86b:11003**)
- Ohta, Masami Hilbert modular forms of weight one and Galois representations. **86c:11033**
- Oort, Frans In 1983 Faltings proved conjectures by Mordell, Shafarevich and Tate. **86j:11017**
- Stienstra, Jan (with Beukers, F.) On the Picard-Fuchs equation and the formal Brauer group of certain elliptic $K3$ -surfaces. **86j:14045**
- Tsfasman, M. A. See Kunyavskii, B. É., **86f:14004**

11G40 *L*-functions of varieties over global fields; Birch-Swinnerton-Dyer conjecture

- Buhler, Joe P. (with Gross, Benedict H.) Arithmetic on elliptic curves with complex multiplication. II. **86j:11066**
 (with Gross, Benedict H.; Zagier, Don Bernard) On the conjecture of Birch and Swinnerton-Dyer for an elliptic curve of rank 3. **86g:11037**
 Gross, Benedict H. See Buhler, Joe P. et al., **86g:11037** and **86j:11066**
 Gupta, Rajiv Ramification in the Coates-Wiles tower. **86m:11044**
 Rohrlich, David E. Courbes elliptiques, fonctions *L*, et tours cyclotomiques. [Elliptic curves, *L*-functions and cyclotomic towers] **86k:11031**
 On *L*-functions of elliptic curves and anticyclotomic towers. **86g:11038a**
 On *L*-functions of elliptic curves and cyclotomic towers. **86g:11038b**
 Tilouine, Jacques Fonctions *L*-*p*-adiques d'une courbe elliptique. [*p*-adic *L*-functions of an elliptic curve] (See **86b:11003**)
 Yager, Rodney L. *p*-adic measures on Galois groups. **86b:11045**
 Zagier, Don Bernard *L*-series of elliptic curves, the Birch-Swinnerton-Dyer conjecture, and the class number problem of Gauss. **86f:11047**
 See also Buhler, Joe P. et al., **86g:11037**

secondary classifications (11G40)

- Abramov, S. A. (with Rosenbloom, M. J.) On the Birch-Swinnerton-Dyer conjecture mod *p*. **86d:11049**
 Atiyah, Michael (with Donnelly, Harold; Singer, I. M.) Eta invariants, signature defects of cusps, and values of *L*-functions. **86g:58134a**
 (with Donnelly, Harold; Singer, I. M.) Signature defects of cusps and values of *L*-functions: the nonsplit case. Addendum to: "Eta invariants, signature defects of cusps, and values of *L*-functions". **86g:58134b**
 Beilinson, A. Higher regulators and values of *L*-functions. (Russian) **86h:11103**
 Bloch, Spencer Height pairings for algebraic cycles. **86h:14015**
 Brattström, Gudrun The invariants of the Tate-Shafarevich group in a \mathbb{Z}_p -extension can be infinite. **86m:11080**
 Brylinski, J.-L. (with Labesse, J.-P.) Cohomologie d'intersection et fonctions *L* de certaines variétés de Shimura. [Intersection cohomology and *L*-functions of some Shimura varieties] **86i:11026**
 Donnelly, Harold See Atiyah, Michael et al., **86g:58134a** and **86g:58134b**
 Harder, Günter Experimente in der Mathematik. [Experiments in mathematics] **86h:11102**
 Koblitz, Neal ★ Introduction to elliptic curves and modular forms. **86c:11040**
 Labesse, J.-P. See Brylinski, J.-L., **86i:11026**
 Panchishkin, A. A. Automorphic *L*-functions and the functoriality principle. (Russian) **86i:11023**
 Raskind, Wayne "Le théorème de Mordell-Weil faible" pour $H^0(X, \mathcal{K}_2)/K_2k$. (English summary) ["The weak Mordell-Weil theorem" for $H^0(X, \mathcal{K}_2)/K_2k$] **86a:14017**
 Rosenbloom, M. J. See Abramov, S. A., **86d:11049**
 Schneider, Peter Rigid-analytic version of the conjecture of Birch and Swinnerton-Dyer. (See **86f:11006**)
p-adic height pairings. II. **86j:11063**
 Singer, I. M. See Atiyah, Michael et al., **86g:58134a** and **86g:58134b**

11G45 Geometric class field theory [See also 11R37.]

- Saito, Shuji Functional equations of *L*-functions of varieties over finite fields. **86m:11045**

secondary classifications (11G45)

- Beilinson, A. Higher regulators and values of *L*-functions. (Russian) **86h:11103**

11G99 None of the above, but in this section

secondary classifications (11G99)

- Ogata, Shoetsu Special values of zeta functions associated to cusp singularities. **86m:11035**
 Szezech, Robert Dedekindsummen mit elliptischen Funktionen. [Dedekind sums with elliptic functions] **86h:11037**

11Hxx Geometry of numbers

secondary classifications (11Hxx)

- Gruber, P. Aspects of convexity and its applications. **86f:52001**

11H06 Lattices and convex bodies [See also 11P21.]

- Bayer-Fluckiger, Eva Definite unimodular lattices having an automorphism of given characteristic polynomial. **86k:11032**
 Botya, F. V. Bravais types of five-dimensional lattices. (Russian) **86e:11047**
 Kondo, Takeshi The automorphism group of Leech lattice and elliptic modular functions. **86k:11033**
 Kostrikin, A. I. (with Kostrikin, I. A.; Ufnarovskii, V. A.) Invariant lattices of type G_2 and their groups of automorphisms. (Russian) **86g:11039**
 Kostrikin, I. A. See Kostrikin, A. I. et al., **86g:11039**
 Ufnarovskii, V. A. See Kostrikin, A. I. et al., **86g:11039**

secondary classifications (11H06)

- Babai, L. On Lovász' lattice reduction and the nearest lattice point problem. (See **86b:68006**)
 Fejes Tóth, G. Multiple lattice packings of symmetric convex domains in the plane. **86b:52009**

- Giger, H. (with Höli, H.) Von Polyedern im ganzzahligen Gitter. [On polyhedra in the integral lattice] **86j:52016**
 Höli, H. See Giger, H., **86j:52016**
 Loxton, J. H. (with Van der Poorten, A. J.) Multiplicative dependence in number fields. **86b:11052**
 Quebbemann, H.-G. An application of Siegel's formula over quaternion orders. **86j:11067**
 Scott, P. R. On planar convex sets containing one lattice point. **86d:52007**
 Lattices and convex sets in space. **86j:52018**
 Van der Poorten, A. J. See Loxton, J. H., **86b:11052**

11H25 Minkowski-Hlawka theorem; Siegel mean value theorem

- Uhrin, Béla Minkowski's convex body theorem and the measure of covering \mathbb{R}^n by a set. (Russian and Hungarian summaries) **86e:11048**

secondary classifications (11H25)

- Helfrich, Bettina An algorithm to construct Minkowski-reduced lattice-bases. **86j:68060**

11H31 Lattice packing and covering [See also 05B40, 52A45.]

- Litsyn, S. N. (with Tsaftman, M. A.) Algebro-geometric and number-theoretic packings of balls in \mathbb{R}^N . (Russian) **86m:11046**
 Tsaftman, M. A. See Litsyn, S. N., **86m:11046**

secondary classifications (11H31)

- Cohen, Gérard Denis See Lobstein, Antoine-Christophe et al., **86h:94021**
 Fejes Tóth, G. Multiple lattice packings of symmetric convex domains in the plane. **86b:52009**
 Fejes Tóth, L. Density bounds for packing and covering with convex discs. **86g:52021**
 Horváth, Jenő (with Temesvári, Á. H.) Über Dichte und Enge von doppelgitterförmigen zweifachen Kreispackungen. [On density and closeness of two-fold double-lattice circle packings] **86h:52019**
 Komlós, J. (with Pintz, János; Szemerédi, E.) On a problem of Erdős and Straus. **86f:11058**
 Levenštejn, V. I. Bounds for packings of metric spaces and some of their applications. (Russian) **86c:52014**
 Lobstein, Antoine-Christophe (with Cohen, Gérard Denis; Sloane, N. J. A.) Recouvrements d'espaces de Hamming binaires. (English summary) [Coverings of binary Hamming spaces] **86h:94021**
 Pintz, János See Komlós, J. et al., **86f:11058**
 Quebbemann, H.-G. A construction of integral lattices. **86c:11044**
 Racemán, Anna A packing problem in the space of points with integer coordinates. (Hungarian) **86h:05039**
 Sloane, N. J. A. See Lobstein, Antoine-Christophe et al., **86h:94021**
 Szabó, S. A bound of *k* for tiling by (*k*, *n*) crosses and semicrosses. **86a:05038**
 Rational tilings by *n*-dimensional crosses. II. **86g:05024**
 Szemerédi, E. See Komlós, J. et al., **86f:11058**
 Temesvári, Á. H. See Horváth, Jenő, **86h:52019**
 Yakovlev, N. N. On a narrow lattice 3-packing and friable lattice 3-covering in the plane. (Russian) **86j:52024**

11H41 Miscellaneous problems

secondary classifications (11H41)

- Babai, L. On Lovász' lattice reduction and the nearest lattice point problem. (See **86b:68006**)

11H50 Minima of forms

- Bambah, R. P. (with Dumir, V. C.; Hans-Gill, R. J.) Positive values of nonhomogeneous indefinite quadratic forms. **86e:11049**
 (with Dumir, V. C.; Hans-Gill, R. J.) Positive values of nonhomogeneous indefinite quadratic forms. II. **86m:11047**
 Dumir, V. C. See Bambah, R. P. et al., **86e:11049** and **86m:11047**
 Fincke, U. (with Pohst, Michael) Improved methods for calculating vectors of short length in a lattice, including a complexity analysis. **86e:11050**
 Hans-Gill, R. J. See Bambah, R. P. et al., **86e:11049** and **86m:11047**
 Hsia, J. S. (with Hung, D. C.) Theta series of quaternary quadratic forms over \mathbb{Z} and $\mathbb{Z}[(1+\sqrt{p})/2]$. **86k:11034**
 Hung, D. C. See Hsia, J. S., **86k:11034**
 Pohst, Michael See Fincke, U., **86e:11050**
 Quebbemann, H.-G. An application of Siegel's formula over quaternion orders. **86j:11067**
 Vulakh, L. Ya. On minima of rational indefinite Hermitian forms. **86e:11051**

secondary classifications (11H50)

- Diets, Bernhard On the gaps of the Lagrange spectrum. **86h:11050**
 Schmidt, Wolfgang M. Small zeros of quadratic forms. **86j:11035**

11H55 Quadratic forms (reduction theory, extreme forms, etc.)

- Burszla, H. (with Zimmermann, Helmut Walter) On the metrical properties of lattices. **86i:11029**
 Quebbemann, H.-G. A construction of integral lattices. **86c:11044**
 Raghavan, Srinivasacharya A duality for representation by quadratic forms. **86f:11048**
 Zimmermann, Helmut Walter See Burszla, H., **86i:11029**

secondary classifications (11H55)

- Brückner, Ludwig Minimale Erzeugung von Positivbereichen. [Minimal generation of positive domains] **86c:11024**
- Fincke, U. (with Pohst, Michael) Improved methods for calculating vectors of short length in a lattice, including a complexity analysis. **86c:11050**
- Oseki, Michio A matrix partition problem. **86b:11019**
- Panov, A. A. Mixed discriminants connected with positive semidefinite quadratic forms. (Russian) **86j:15004**
- Pohst, Michael See Fincke, U., **86c:11050**

11H60 Mean value and transfer theorems

secondary classifications (11H60)

- Hsia, J. S. (with Hung, D. C.) Theta series of quaternary quadratic forms over \mathbb{Z} and $\mathbb{Z}[(1 + \sqrt{p})/2]$. **86k:11034**
- Hung, D. C. See Hsia, J. S., **86k:11034**

11H99 None of the above, but in this section

- Conway, J. H. (with Sloane, N. J. A.) Complex and integral laminated lattices. **86c:11053**
- Sloane, N. J. A. See Conway, J. H., **86c:11053**

11Jxx Diophantine approximation, transcendental number theory
[See also 11K60.]

11J04 Homogeneous approximation to one number

- Balca, Malvina Approximation of irrationals. **86j:11068**
- Harman, Glyn Diophantine approximation with square-free integers. **86a:11026**
- Ren, Jian Hua See Zhu, Yao Chen, **86i:11030**
- Zhu, Yao Chen (with Ren, Jian Hua) Approximation of e and e^π by algebraic numbers. (Chinese. English summary) **86i:11030**

secondary classifications (11J04)

- Languevin, Michel Méthode de Fekete-Szegő et problème de Lehmer. (English summary) [Application of a method of Fekete and Szegő to Lehmer's problem] **86m:11050**
- Strauch, Otto Some new criterions for sequences which satisfy Duffin-Schaeffer conjecture. I. (Russian and Slovak summaries) **86a:11031**
- Some new criterions for sequences which satisfy Duffin-Schaeffer conjecture. II. (Russian and Slovak summaries) **86d:11059**

11J06 Markov and Lagrange spectra and generalizations

- Diets, Bernhard On the gaps of the Lagrange spectrum. **86h:11050**
- Prasad, K. C. On a Markoff-like chain. **86i:11031**
- Series, Caroline The geometry of Markoff numbers. **86j:11009**

secondary classifications (11J06)

- Lehner, J. (with Sheingorn, M.) Computing self-intersections of closed geodesics on finite-sheeted covers of the modular surface. **86e:11031**
- Niederreiter, Harald On a measure of denseness for sequences. **86h:11058**
- Sheingorn, M. See Lehner, J., **86e:11031**

11J13 Simultaneous homogeneous approximation, linear forms

- Cusick, T. W. (with Pomerance, Carl) View-obstruction problems. III. **86b:11046**
- Ensaute, Hélène (with Viehweg, Eckart) Dyson's lemma for polynomials in several variables (and the theorem of Roth). **86e:11053**
- Evertse, J.-H. On sums of S -units and linear recurrences. **86c:11045**
- Kraus, S. Estimates for n -dimensional Diophantine approximation constants for $n \geq 4$. **86j:11070**
- Lagarias, J. C. The computational complexity of simultaneous Diophantine approximation problems. **86m:11048**
- Loahakosol, Wichian A characterization of rational numbers by p -adic Ruban continued fractions. **86k:11035**
- Nowak, Werner Georg On simultaneous Diophantine approximation. **86e:11054**
- Pomerance, Carl See Cusick, T. W., **86b:11046**
- Shmelev, A. A. Simultaneous approximations of exponentials by transcendental numbers of a special type. (Russian) **86j:11071**
- Székely, G. Computer examination of the 2-dimensional simultaneous approximation constant. **86h:11051**
- Viehweg, Eckart See Ensault, Hélène, **86e:11053**

secondary classifications (11J13)

- Makarov, Yu. N. On estimates of linear forms of values of E -functions. (Russian) **86k:11058**
- Series, Caroline The geometry of Markoff numbers. **86j:11009**
- Trellis, L. A. Representation of powers by polynomials in algebraic number fields. (Russian. English summary) **86h:11026**
- Vasilenko, O. N. Arithmetic properties of values of polylogarithms. (Russian) **86m:11051**

11J17 Approximation by numbers from a fixed field

- Chudnovsky, D. V. (with Chudnovsky, G. V.) Recurrences, Padé approximations and their applications. **86c:11046**
- Chudnovsky, G. V. See Chudnovsky, D. V., **86c:11046**
- Gemes, Richard A. Complex approximations using algebraic integers. **86m:11049**
- Thurnheer, Peter Approximation diophantienne par certains couples d'entiers. [Diophantine approximation by certain pairs of integers] **86c:11047**

secondary classifications (11J17)

- Kotov, S. V. A remark on Thue's equation. (Russian. English summary) **86i:11013**
- Shmelev, A. A. Simultaneous approximations of exponentials by transcendental numbers of a special type. (Russian) **86j:11071**

11J20 Inhomogeneous linear forms

- Thurnheer, Peter Zur diophantischen Approximation von zwei reellen Zahlen. [On the Diophantine approximation of two real numbers] **86c:11048**

secondary classifications (11J20)

- Balog, A. (with Perelli, A.) Diophantine approximation by square-free numbers. **86j:11041**
- Perelli, A. See Balog, A., **86j:11041**

11J37 Products of n linear forms in n variables ($n \geq 2$) [See mainly 11H46.]

- Van der Poorten, A. J. Additive relations in number fields. **86f:11049**

11J45 Minima of quadratic forms in more than two variables [See mainly 11H50.]

secondary classifications (11J45)

- Bambah, R. P. (with Dumir, V. C.; Hana-Gill, R. J.) Positive values of nonhomogeneous indefinite quadratic forms. **86c:11049**
- Dumir, V. C. See Bambah, R. P. et al., **86c:11049**
- Hana-Gill, R. J. See Bambah, R. P. et al., **86c:11049**

11J54 Small fractional parts of polynomials and generalizations

- Baker, R. C. (with Harman, Glyn) Small fractional parts of polynomials. **86i:11032**
- Cook, Roger J. Small fractional parts of quadratic and cubic polynomials in many variables. **86i:11033**
- Harman, Glyn See Baker, R. C., **86i:11032**

secondary classifications (11J54)

- Mignotte, M. On algebraic integers of small measure. (See **86d:11002**)

11J61 Approximation in non-Archimedean valuations

- Loahakosol, Wichian A modified proof of transcendence of the p -adic exponential function. **86g:11040**
- Wang, Lian Xiang p -adic F -functions with their rank. **86d:11052**

secondary classifications (11J61)

- Berend, Daniel Multi-invariant sets on compact abelian groups. **86c:22009**
- Cheng, Unjeng On the continued fraction and Berlekamp's algorithm. **86b:94021**

11J68 Rational approximation to algebraic numbers

- Kiss, Péter On some properties of linear recurrences. **86b:11047**
- Mueller, J. On Thue's principle and its applications. **86a:11027**
- Van der Poorten, A. J. Effective approximation of algebraic numbers, d'après Enrico Bombieri. **86j:11072**

secondary classifications (11J68)

- Silverman, Joseph H. An inequality relating the regulator and the discriminant of a number field. **86c:11094**

11J69 Simultaneous rational approximation to algebraic numbers

- Rieger, G. J. Rationale Approximation auf der Fläche $x^3 + y^3 + z^3 = 1$. [Rational approximation on the surface $x^3 + y^3 + z^3 = 1$] **86j:11073**

secondary classifications (11J69)

- Berend, Daniel Multi-invariant sets on compact abelian groups. **86c:22009**

11J70 Continued fractions and generalizations [See also 11A55, 11K50.]

- de Bruin, Marcel G. New convergence results for continued fractions generated by four-term recurrence relations. **86b:11048**
- Cohn, Harvey Mathematical microcosm of geodesics, free groups, and Markoff forms. **86c:11049**
- Cusick, T. W. Continuants with bounded digits. III. **86c:11050**
- Parusnikov, V. I. The rate of coefficientwise convergence of simultaneous approximations obtained by the Jacobi-Perron algorithm. (Russian) **86d:11053**
- Steinig, J. On the complete quotients of semiregular continued fractions for quadratic irrationals. **86e:11055**

secondary classifications (11J70)

- Loahakosol, Wichian A characterization of rational numbers by p -adic Ruban continued fractions. **86k:11035**

- Lehner, J. (with Sheingorn, M.) Simple closed geodesics on $H^+/T(3)$ arise from the Markov spectrum. **86b:11033**
 Patterson, C. D. (with Williams, Hugh Cowie) Some periodic continued fractions with long periods. **86b:11113**
 Prasad, K. C. On a Markoff-like chain. **86i:11031**
 Series, Caroline The geometry of Markoff numbers. **86j:11060**
 Sheingorn, M. See Lehner, J., **86b:11033**
 Williams, Hugh Cowie See Patterson, C. D., **86b:11113**

11J71 Distribution modulo one [See also 11K06.]

- Aparicio Bernardo, Emiliano New bounds for uniform Diophantine deviation from zero in $[0, 1]$ and $[0, \frac{1}{2}]$. (Spanish) (See **86b:00009a**)
 Langevin, Michel Méthode de Fekete-Szegő et problème de Lehmer. (English summary) [Application of a method of Fekete and Szegő to Lehmer's problem] **86m:11050**
 Pollington, Andrew Douglas Sur les suites $(k\theta^n)$. (English summary) [About sequences $(k\theta^n)$] **86i:11034**
 Russa, Imre Z. On the uniform and almost uniform distribution of $(a_n x)$ mod 1. **86c:11051**
 Wagner, Gerold Sala Mixing properties of the linear permutation group. **86c:11056**

secondary classifications (11J71)

- Beukers, F. Arithmetical properties of Picard-Fuchs equations. (See **86f:11006**)
 Müller, Helmut Eine Note zur Gleichverteilung additiv erzeugter Folgen. [A note on the uniform distribution of additively generated sequences] **86k:11040**

11J72 Irrationality; linear independence over a field

- Balog, A. (with Perelli, A.) Diophantine approximation by square-free numbers. **86g:11041**
 Beukers, F. The values of polylogarithms. (See **86d:11002**)
 Bundschuh, Peter Generalization of a recent irrationality result of Mahler. **86a:11028** (with Shiohawa, Iekata) A measure for the linear independence of certain numbers. **86e:11057**
 Chudnovsky, G. V. On applications of Diophantine approximations. **86f:11050**
 Laohakosol, Wichian (with Roenrom, Nit) A remark on a result of L. Kuipers. **86f:11051**
 Nesterenko, Yu. V. Linear independence of numbers. (Russian) **86j:11074**
 Perelli, A. See Balog, A., **86g:11041**
 Roenrom, Nit See Laohakosol, Wichian, **86f:11051**
 Sándor, József Some classes of irrational numbers. (Romanian summary) **86i:11035**
 Shiohawa, Iekata See Bundschuh, Peter, **86e:11057**
 Vasilenko, O. N. Arithmetic properties of values of polylogarithms. (Russian) **86m:11051**
 Wallisser, Rolf Rationale Approximation des q -Analogons der Exponentialfunktion und Irrationalitätsaussagen für diese Funktion. [Rational approximation of the q -analogue of the exponential function and irrationality statements for this function] **86i:11036**

secondary classifications (11J72)

- Chudnovsky, D. V. (with Chudnovsky, G. V.) Padé and rational approximations to systems of functions and their arithmetic applications. **86a:11029**
 Chudnovsky, G. V. See Chudnovsky, D. V., **86a:11029**
 Emsalem, M. (with Kisilevsky, H. H.; Wales, D. B.) Indépendance linéaire sur $\bar{\mathbb{Q}}$ de logarithmes p -adiques de nombres algébriques et rang p -adique du groupe des unités d'un corps de nombres. (English summary) [Linear independence over $\bar{\mathbb{Q}}$ of p -adic logarithms of algebraic numbers and p -adic rank of the unit group of a number field] **86e:11105**
 Kisilevsky, H. H. See Emsalem, M. et al., **86e:11105**
 Wales, D. B. See Emsalem, M. et al., **86e:11105**

11J81 Transcendence (general theory)

- Laohakosol, Wichian An arithmetic property of the Taylor coefficients of analytic functions with an application to transcendental numbers. **86e:11058**
 Mendes France, Michel Automates et nombres transcendants. [Automata and transcendental numbers] **86j:11075**
 Nishio, Keiji Algebraic function solutions of a certain class of functional equations. **86g:11042**
 Reich, Axel On hypertranscendental functions. **86f:11052**
 Wakabayashi, Isao Meilleures estimations possibles pour l'ensemble des points algébriques de fonctions analytiques. [Best possible estimates for the set of algebraic points of analytic functions] (See **86b:11003**)

secondary classifications (11J81)

- Ramias, J.-P. Théorèmes d'indices Gevrey pour les équations différentielles ordinaires. (English summary) [Gevrey index theorems for ordinary differential equations] **86e:34021**
 Ren, Jian Hua See Zhu, Yao Chen, **86i:11030**
 Zhu, Yao Chen (with Ren, Jian Hua) Approximation of e and e^π by algebraic numbers. (Chinese. English summary) **86i:11030**

11J82 Measures of irrationality and of transcendence

- Chudnovsky, G. V. Number theoretic applications of polynomials with rational coefficients defined by extremality conditions. **86c:11052**
 Masser, D. W. Zero estimates on group varieties. **86k:11036**
 Stewart, C. L. A note on the product of consecutive integers. **86i:11037**

secondary classifications (11J82)

- Bundschuh, Peter (with Shiohawa, Iekata) A measure for the linear independence of certain numbers. **86e:11057**

- Chudnovsky, D. V. (with Chudnovsky, G. V.) Recurrences, Padé approximations and their applications. **86c:11046**
 Chudnovsky, G. V. See Chudnovsky, D. V., **86c:11046**
 Shiohawa, Iekata See Bundschuh, Peter, **86e:11057**

11J83 Metric theory

- Markovich, N. I. Extremality of a manifold in \mathbb{R}^3 . (Russian. English summary) **86k:11037**

11J85 Algebraic independence; Gelfond's method

- Bésivin, Jean-Paul Une généralisation à plusieurs variables d'un résultat de Gelfond. (English summary) [A generalization of a result of Gelfond to several variables] **86f:11053**
 Endell, R. Zur algebraischen Unabhängigkeit gewisser Werte der Exponentialfunktion. [On the algebraic independence of certain values of the exponential function] **86c:11053**
 Nesterenko, Yu. V. The measure of algebraic independence of almost all pairs of p -adic numbers. (Russian) **86d:11054**
 Salikhov, V. Kh. Algebraic irreducibility of a family of linear differential equations. (Russian) **86j:11076**
 Sieburg, Hans-Bernd Algebraically independent values of Liouville-von Neumann series over \mathbb{QV} -fields. **86d:11055**
 Waldschmidt, Michel Indépendance algébrique et exponentielles en plusieurs variables. [Algebraic independence and exponentials in several variables] **86b:11049**
 Algebraic independence of transcendental numbers. Gelfond's method and its developments. **86f:11054**
 Petite degré de transcendance par la méthode de Schneider en une variable. [Small transcendence degrees by Schneider's method in one variable] **86h:11062**
 Zhu, Yao Chen A generalization in several variables of a transcendence criterion of Gelfond. II. **86i:11059**
 The algebraic independence of the values of certain lacunary series. (Chinese) (Not in MR)
 A criterion for deciding algebraic independence of complex numbers. (Chinese) (Not in MR)

secondary classifications (11J85)

- Chudnovsky, G. V. Bäcklund transformations and deformations of linear differential equations with applications to Diophantine approximations. (See **86f:81005**)
 On applications of Diophantine approximations. **86f:11050**
 Ehrenpreis, Leon Transcendental numbers and partial differential equations. (See **86f:11004**)
 Grigorenko, N. V. Transitivity of Galois groups of linear differential equations. (Russian) **86b:12002**
 Kaufman, Robert P. Riccati equations, zeroes and independence. **86a:34018**
 Makarov, Yu. N. On estimates of linear forms of values of E -functions. (Russian) **86k:11038**

11J86 Linear forms in logarithms; Baker's method

- Aparicio Bernardo, Emiliano Diophantine approximations to zero of generalized complex polynomials over an imaginary quadratic field. (Spanish. English summary) (See **86g:00012b**)
 Yu, Kun Rui Linear forms in elliptic logarithms. **86g:11043**

secondary classifications (11J86)

- Evertse, J.-H. On sums of S -units and linear recurrences. **86c:11045**
 Kotov, S. V. A remark on Thue's equation. (Russian. English summary) **86i:11013**

11J87 Applications to Diophantine equations and other arithmetic problems

- Chudnovsky, D. V. (with Chudnovsky, G. V.) Padé approximations and Diophantine geometry. **86b:11053**
 Chudnovsky, G. V. The Thue-Siegel-Roth theorem for values of algebraic functions. **86b:11050**
 See also Chudnovsky, D. V., **86b:11053**

secondary classifications (11J87)

- Laurent, Michel Équations diophantiennes exponentielles. (English summary) [Exponential Diophantine equations] **86d:11028**
 Liu, Ming Chit A bound for prime solutions of some ternary equations. **86g:11057**
 Mason, R. C. ★ Diophantine equations over function fields. **86b:11026**
 Equations over function fields. **86a:11012**
 Tijdeman, R. On the Fermat-Catalan equation. **86c:11017**
 Trellis, L. A. Representation of powers by polynomials in algebraic number fields. (Russian. English summary) **86b:11026**

11J89 Transcendence theory of elliptic and abelian functions and algebraic groups

- Faltings, Gerd (with Wüstholz, G.) Einbettungen kommutativer algebraischer Gruppen und einige ihrer Eigenschaften. [Embeddings of commutative algebraic groups and some of their properties] **86f:11056**
 Masser, D. W. (with Wüstholz, G.) Zero estimates on group varieties. II. **86h:11054**
 Moreau, Jean-Charles Démonstrations géométriques de lemmes de zéros. II. [Geometric proofs of Nullstellensätze. II] **86b:11051b**
 Démonstrations géométriques de lemmes de zéros. I. [Geometric proofs of Nullstellensätze] **86b:11051a**
 Wüstholz, G. Zum Periodenproblem. [On the period problem] **86f:11057**

Transzendenzigenschaften von Perioden elliptischer Integrale. [Transcendence properties of periods of elliptic integrals] **86f:11055**
See also Faltings, Gerd, 86f:11056 and Masser, D. W., 86h:11054

secondary classifications (11J89)

- Chudnovsky, D. V. (with Chudnovsky, G. V.) Padé approximations to solutions of linear differential equations and applications to Diophantine analysis. **86j:11077**
 Chudnovsky, G. V. *See* Chudnovsky, D. V., **86j:11077**
 Knop, F. (with Lange, Herbert) Commutative algebraic groups and intersections of quadrics. **86f:14031**
 Lange, Herbert Translations sur les groupes algébriques commutatifs. (English summary) [Translations of commutative algebraic groups] **86e:14033**
See also Knop, F., 86f:14031
 Laurent, Michel Équations diophantiennes exponentielles. [Exponential Diophantine equations] **86j:11063**
 Masser, D. W. Zero estimates on group varieties. **86h:11036**
 Yu, Kun Rui Linear forms in elliptic logarithms. **86g:11043**

11J91 Transcendence theory of other special functions

- Chudnovsky, D. V. (with Chudnovsky, G. V.) The Wronskian formalism for linear differential equations and Padé approximations. **86i:11038**
 Chudnovsky, G. V. *See* Chudnovsky, D. V., **86i:11038**
 Loxton, J. H. (with Van der Poorten, A. J.) Multiplicative dependence in number fields. **86b:11052**
 Makarov, Yu. N. On estimates of linear forms of values of E -functions. (Russian) **86i:11038**
 Shidlovskii, A. B. Estimates for the moduli of polynomials with algebraic coefficients at the values of E -functions. **86m:11052**
 Van der Poorten, A. J. *See* Loxton, J. H., **86b:11052**

secondary classifications (11J91)

- Chudnovsky, G. V. On applications of Diophantine approximations. **86f:11050**
 Wang, Lian Xiang p -adic F -functions with their rank. **86d:11052**

11J99 None of the above, but in this section

- Chudnovsky, D. V. (with Chudnovsky, G. V.) Padé and rational approximations to systems of functions and their arithmetic applications. **86a:11029**
 (with Chudnovsky, G. V.) Padé approximations to solutions of linear differential equations and applications to Diophantine analysis. **86j:11077**
 Chudnovsky, G. V. *See* Chudnovsky, D. V., **86a:11029** and **86j:11077**
 Escassut, Alain Correction: "Transcendence order over \mathbb{Q}_p in C_p " [J. Number Theory **16** (1983), no. 3, 395–402; MR **84j:10047**]. **86i:11054**
 Freiling, Chris Some new games and badly approximable numbers. **86i:11060**
 Komlós, J. (with Pintér, János; Szemerédi, E.) On a problem of Erdős and Straus. **86f:11058**
 Pintér, János *See* Komlós, J. et al., **86f:11058**
 Smyth, C. J. Some results on Newman polynomials. **86i:11039**
 Szemerédi, E. *See* Komlós, J. et al., **86f:11058**

secondary classifications (11J99)

- Aparicio Bernardo, Emiliano Some results in the problem of Diophantine approximations of functions by polynomials. (Russian) **86d:11001**
 Beauville, Arnaud (with Colliot-Thélène, Jean-Louis; Sansuc, Jean-Jacques; Swinnerton-Dyer, H. P. F.) Variétés stables rationnelles non rationnelles. [Nonrational stably rational varieties] **86m:14009**
 Chudnovsky, D. V. (with Chudnovsky, G. V.) The Wronskian formalism for linear differential equations and Padé approximations. **86i:11038**
 Chudnovsky, G. V. *See* Chudnovsky, D. V., **86i:11038**
 Colliot-Thélène, Jean-Louis *See* Beauville, Arnaud et al., **86m:14009**
 Dèbes, Pierre Une version effective du théorème d'irréductibilité de Hilbert. [An effective version of Hilbert's irreducibility theorem] **86a:11039**
 Gruber, P. In most cases approximation is irregular. **86h:11036**
 Györy, K. Effective finiteness theorems for polynomials with given discriminant and integral elements with given discriminant over finitely domains. **86b:11064a**
 Correction to the paper: "Effective finiteness theorems for polynomials with given discriminant and integral elements with given discriminant over finitely generated domains". **86b:11064b**
 Hirschowitz, André La méthode d'Horace pour l'interpolation à plusieurs variables. (English summary) [Horace's method for interpolation of several variables] **86j:14013**
 Jaulent, Jean-François Sur l'indépendance l -adique de nombres algébriques. (English summary) [The l -adic independence of algebraic numbers] **86j:11122**
 Sansuc, Jean-Jacques *See* Beauville, Arnaud et al., **86m:14009**
 Swinnerton-Dyer, H. P. F. *See* Beauville, Arnaud et al., **86m:14009**
 Wolfkill, J. The distribution of reduced numbers in an ideal of a real cubic number field. **86m:11077**

11Kxx Probabilistic theory: distribution modulo 1; metric theory of algorithms

11K06 General theory of distribution modulo 1 [See also 11J71.]

- Baker, R. C. Entire functions and uniform distribution modulo 1. **86h:11055**
 (with Kolesnik, G.) On the distribution of p^n modulo one. **86m:11053**
 Balog, A. On the distribution of p^n modulo 1. **86i:11039**
 Coquet, Jean Représentations lacunaires des entiers naturels. II. [Lacunary representations of the natural numbers. II] **86i:11040**
 Drenaler, A. Quelques rapports de la théorie des nombres avec la théorie de l'itération. [Some relationships of number theory with the theory of iteration] (*See* **86g:58080**)

- Kawai, Hitosi α -additive functions and uniform distribution modulo one. **86d:11056**
 Kirschenhofer, Peter (with Tichy, R. F.) Some distribution properties of 0, 1-sequences. **86m:11054**
 Kolesnik, G. *See* Baker, R. C., **86m:11053**
 Mendes France, Michel Entropy of curves and uniform distribution. (*See* **86d:11002**)
 Müller, Helmut Eine Note zur Gleichverteilung additiv erzeugter Folgen. [A note on the uniform distribution of additively generated sequences] **86k:11040**
 Niederreiter, Harald A quasi-Monte Carlo method for the approximate computation of the extreme values of a function. **86m:11055**
 A general rearrangement theorem for sequences. **86e:11061**
 Distribution mod 1 of monotone sequences. **86i:11041**
 Proinov, P. D. Estimation of L^2 discrepancy of a class of infinite sequences. **86a:11030**
 On the extreme and L^2 discrepancies of symmetric finite sequences. **86i:11042**
 Russa, Imre Z. Connections between the uniform distribution of a sequence and its differences. **86e:11062**
 Sobol', I. M. ★ Точки, равномерно заполняющие многомерный куб. (Russian) [Points that uniformly fill a multidimensional cube] **86h:11056**
 Strauch, Oto Two properties of the sequence $na \pmod{1}$. (Russian and Slovak summaries) **86d:11057**
 Tichy, R. F. Uniform distribution and Diophantine inequalities. **86f:11059**
See also Kirschenhofer, Peter, 86m:11054
 Topuzoglu Eralp, Alev Estimates of discrepancy mod 1 of slowly growing sequences $(a_n x)$. (Turkish summary) **86f:11060**
 Turnwald, Gerhard Gleichverteilung von linearen rekursiven Folgen. (English summary) [Uniform distribution of linear recurring sequences] **86k:11041**
 Van Ravenstein, Tony On the discrepancy of the sequence formed from multiples of an irrational number. **86k:11042**

secondary classifications (11K06)

- Firneis, Friedrich *See* Hlawka, E. et al., **86h:55011**
 Hlawka, E. (with Firneis, Friedrich; Zinterhof, Peter) ★ Zahlentheoretische Methoden in der numerischen Mathematik. (German) [Number theoretic methods in numerical mathematics] **86h:55011**
 Kinal, Franz Asymptotic equidistribution on locally compact semigroups. **86f:22006**
 Kirschenhofer, Peter (with Tichy, R. F.) Zur Diskrepanz von 0, 1-Folgen. (English summary) [On the discrepancy of 0, 1-sequences] **86k:11043**
 Nagasaka, K. On Benford's law. **86a:50052**
 Niederreiter, Harald Optimal multipliers for linear congruential pseudorandom numbers: the decimal case. **86e:55013**
 The performance of k -step pseudorandom number generators under the uniformity test. **86f:55029**
 Russa, Imre Z. On the uniform and almost uniform distribution of $(a_n x) \pmod{1}$. **86i:11051**
 Scholten, Johannes On the discrepancy of (na) . **86i:11056**
 Tichy, R. F. Zur Gleichverteilung bezüglich gewichteter Mittel. [On the uniform distribution of weighted means] **86e:11063**
See also Kirschenhofer, Peter, 86k:11043
 Zinterhof, Peter *See* Hlawka, E. et al., **86h:55011**

11K16 Normal numbers, radix expansions, etc. [See also 11A63.]

- Bergelson, Vitaly (with Weiss, Benjamin) Translation properties of sets of positive upper density. **86m:11056**
 Lyons, Russell La mesure des ensembles non-normaux. [The measure of nonnormal sets] (*See* **86b:11003**)
 Pomerance, Carl On the distribution of round numbers. (*See* **86b:11003**)
 Volkmann, Bodo On the Cassels-Schmidt theorem. I. (French summary) **86g:11044**
 Weiss, Benjamin *See* Bergelson, Vitaly, **86m:11056**

secondary classifications (11K16)

- Coquet, Jean Représentations lacunaires des entiers naturels. II. [Lacunary representations of the natural numbers. II] **86i:11040**
 Fuchs, A. (with Nanopoulos, Ph.) Mesures invariantes par translation, classes de Dynkin first-digit problem. (English summary) [Invariant measures by translation, first-digit problem Dynkin classes] **86m:60003**
 Nanopoulos, Ph. *See* Fuchs, A., **86m:60003**
 Prodinger, Helmut (with Tichy, R. F.) Über ein zahlentheoretisches Problem aus der Informatik. [On a number-theoretic problem in information science] **86e:11008**
 Tichy, R. F. *See* Prodinger, Helmut, **86e:11008**
 Wagon, Stan Is π normal? **86j:11135**

11K31 Other special sequences

- Boyd, David W. Which rationals are ratios of Pisot sequences? **86j:11078**
 Coquet, Jean Mesures spectrales de Walsh associées à certaines suites arithmétiques. (English summary) [Walsh spectral measures associated with some arithmetical sequences] **86m:11057**

secondary classifications (11K31)

- Allouche, Jean-Paul Suites infinies à répétitions bornées. [Infinite sequences with bounded repetitions] (*See* **86b:11003**)
 DeLaurentis, J. M. (with Pittel, B. G.) Random permutations and Brownian motion. **86m:60027**
 D'yachkov, A. G. (with Rykov, V. V.) B_2 -sequences. (Russian) **86m:11016**
 Lagarias, J. C. The $3x + 1$ problem and its generalizations. **86i:11043**
 Pittel, B. G. *See* DeLaurentis, J. M., **86m:60027**
 Rykov, V. V. *See* D'yachkov, A. G., **86m:11016**
 Shallit, J. O. On infinite products associated with sums of digits. **86m:11007**

11K36 Well-distributed sequences and other variations

secondary classifications (11K36)

Firneis, Friedrich See Hlawka, E. et al., 86h:85011

Hlawka, E. (with Firneis, Friedrich; Zinterhof, Peter) ★ Zahlentheoretische Methoden in der numerischen Mathematik. (German) [Number theoretic methods in numerical mathematics] 86h:85011

Nagasaka, K. On Benford's law. 86a:80052

Zinterhof, Peter See Hlawka, E. et al., 86h:85011

11K38 Irregularities of distribution, discrepancy [See also 11Nxx.]

Beck, József Some results and problems in "combinatorial discrepancy theory". 86h:11057

Chen, W. W. L. On irregularities of distribution and approximate evaluation of certain functions. 86j:11079

Dobrovol'skiĭ, N. M. An effective proof of Roth's theorem on quadratic deviation. (Russian) 86c:11055

Kirschenhofer, Peter (with Tichy, R. F.) Zur Diskrepanz von 0,1-Folgen. (English summary) [On the discrepancy of 0,1-sequences] 86k:11043

Niederreiter, Harald On a measure of denseness for sequences. 86h:11058

Scholsenberger, Johannes On the discrepancy of $(n\alpha)$. 86c:11056

Tichy, R. F. Zur Gleichverteilung bezüglich gewichteter Mittel. [On the uniform distribution of weighted means] 86c:11063

See also Kirschenhofer, Peter, 86k:11043

secondary classifications (11K38)

Beck, József Sums of distances between points on a sphere—an application of the theory of irregularities of distribution to discrete geometry. 86d:52004

Pollington, Andrew Douglas Sur les suites $\{k\theta^n\}$. (English summary) [About sequences $\{k\theta^n\}$] 86i:11034

Rausy, G. Ensembles à restes bornés. [Sets with bounded remainders] 86g:28024

11K41 Continuous, p -adic and abstract analogues

secondary classifications (11K41)

Wagner, Gerold Sala Irregularities of charge distributions. (See 86d:11002)

11K45 Pseudo-random numbers; Monte Carlo methods

secondary classifications (11K45)

Niederreiter, Harald On a measure of denseness for sequences. 86h:11058

The serial test for pseudorandom numbers generated by the linear congruential method. 86i:85010

11K50 Metric theory of continued fractions [See also 11A55, 11J70.]

Knuth, Donald E. The distribution of continued fraction approximations. 86d:11058

Rieger, G. J. On the metrical theory of continued fractions with odd partial quotients. 86j:11080

Salát, Tibor On a metric result in the theory of continued fractions. (Russian and Slovak summaries) 86c:11057

secondary classifications (11K50)

Cusick, T. W. Continuants with bounded digits. III. 86c:11050

11K55 Metric theory of other algorithms and expansions; measure and Hausdorff dimension [See also 11N99.]

Allouche, Jean-Paul Suites infinies à répétitions bornées. [Infinite sequences with bounded repetitions] (See 86b:11003)

Alufahai, Imohimi C. Number theoretical weak Bernoulli transformations on the unit interval. 86h:11059

Dodson, M. M. A note on the Hausdorff-Besicovitch dimension of systems of linear forms. 86h:11060

Fuchs, A. (with Letta, G.) Sur le problème du premier chiffre décimal. (Italian summary) [On the first digit problem] 86c:11058

Lagarias, J. C. The $3x+1$ problem and its generalizations. 86i:11043

Letta, G. See Fuchs, A., 86c:11058

McMullen, Curt The Hausdorff dimension of general Sierpiński carpets. 86h:11061

secondary classifications (11K55)

Beck, Anatole A very sparse set of dimension 1. 86c:28017

Blom, Gunnar On the stochastic ordering of waiting times for patterns in sequences of random digits. 86b:60020

Calderoni, P. (with Campanino, M.; Capocaccia, D.) A local limit theorem for a sequence of interval transformations. 86m:58085

Campanino, M. See Calderoni, P. et al., 86m:58085

Capocaccia, D. See Calderoni, P. et al., 86m:58085

Harrison, Jenny Continued fractals and the Seifert conjecture. 86k:58107

Hawkes, John Random re-orderings of intervals complementary to a linear set. 86b:28004

Liu, Wen A property of expansions of real numbers. (Chinese. English summary) 86b:28016

Maurin, Jacques Une théorie du hasard. (English summary) [A theory of chance] 86k:60002

Queffelec, Martine Étude spectrale de substitutions. (English summary) [Spectral properties of substitutions] 86b:11018

Russa, Imre Z. On the uniform and almost uniform distribution of $(a_n x)$ mod 1. 86c:11051

11K60 Diophantine approximation [See also 11Jxx.]

Rao, N. Venkateswara Diophantine approximation and convergence of alternating series. 86c:11064

Strauch, Oto Some new criteria for sequences which satisfy Duffin-Schaeffer conjecture. I. (Russian and Slovak summaries) 86a:11031

Some new criteria for sequences which satisfy Duffin-Schaeffer conjecture. II. (Russian and Slovak summaries) 86d:11059

secondary classifications (11K60)

Harman, Glyn Diophantine approximation with square-free integers. 86a:11026

Lubinsky, D. S. Note on polynomial approximation of monomials and Diophantine approximation. 86k:41009

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Déchamps-Gondim, Myriam (with Queffelec, Hervé; Lust-Piquard, Françoise) Estimations locales de sommes d'exponentielles. [Local estimates of exponential sums] **86g:42003**

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11Mxx Zeta and L -functions: analytic theory

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Graham, S. W. Large values of the Riemann zeta-function. **86k:11048**

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Heath-Brown, D. R. See Conrey, J. B. et al., 86j:11063

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Voronin, S. M. Distribution of zeros of certain Dirichlet series. (Russian) 86g:11048

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11M99 None of the above, but in this section

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secondary classifications (11Nxx)

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Friedlander, J. B. Large prime factors in small intervals. 86e:11077

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Maier, Helmut (with Tenenbaum, G.) On the set of divisors of an integer. 86b:11057

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Mihalea, Stelian Standard completion of \mathbb{Z} . 86e:11079

Odlyzko, A. M. (with te Riele, H. J. J.) Disproof of the Mertens conjecture. 86m:11070

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Prachar, K. Bemerkungen über Primzahlen in kurzen Reihen. [Remarks on primes in short sequences] 86e:11080

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Goldston, D. A. Prime numbers and the pair correlation of zeros of the zeta-functions. (See 86f:11007)

Hudson, Richard H. Averaging effects on irregularities in the distribution of primes in arithmetic progressions. 86h:11074

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Lagarias, J. C. (with Miller, Victor S.; Odlyzko, A. M.) Computing $\pi(x)$: the Meissel-Lehmer method. 86h:11111

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Odlyzko, A. M. See Lagarias, J. C. et al., 86h:11111

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Wolke, Dieter On the explicit formula of Riemann-von Mangoldt. II. 86b:11056

11N13 Primes in progressions [See also 11B25.]

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Fouvry, Étienne Autour du théorème de Bombieri-Vinogradov. [On the Bombieri-Vinogradov theorem] (See 86f:11006)

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Heath-Brown, D. R. Three primes and an almost-prime in arithmetic progression. (See 86d:11002)

- Hudson, Richard H. Averaging effects on irregularities in the distribution of primes in arithmetic progressions. **86h:11074**
 Kriehel, R. G. Distribution of values of multiplicative functions of class D_0 in primitive arithmetic progressions. (Russian) **86c:11066**
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- Belyakov, E. B. (with Mart'yanov, V. I.) The universal theory of the integers and the extended twin prime conjecture. (Russian) **86g:03017**
 Maier, Helmut. Primes in short intervals. **86i:11049**
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11N25 Distribution of integers with specified multiplicative constraints

- (Birch, Bryan J.) See Friedlander, J. B., **86i:11050**
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 Erdős, Paul (with Turk, Jan) Products of integers in short intervals. **86d:11073**
 Friedlander, J. B. (with Iwaniec, Henryk) Incomplete Kloosterman sums and a divisor problem. **86i:11050**
 Hildebrand, Adolf. Integers free of large prime divisors in short intervals. **86f:11066**
 Iwaniec, Henryk. See Friedlander, J. B., **86i:11050**
 Nicolas, Jean-Louis. Sur la distribution des nombres entiers ayant une quantité fixée de facteurs premiers. [On the distribution of integers with a fixed number of prime factors] **86c:11067**
 Pinta, János. On the distribution of square-free numbers. **86b:11058**
 Turk, Jan. See Erdős, Paul, **86d:11073**
 Warlimont, Richard. On the set of natural numbers which only yield orders of abelian groups. **86k:11049**

secondary classifications (11N25)

- Maier, Helmut (with Tenenbaum, G.) On the set of divisors of an integer. **86b:11057**
 Nowak, Werner Georg. Lattice points in a circle and divisors in arithmetic progressions. **86j:11069**
 Spiro, Claudia A. Extensions of some formulae of A. Selberg. **86j:11014**
 Tenenbaum, G. See Maier, Helmut, **86b:11057**

11N30 Turán theory

- (Halász, Gábor) See Turán, Pál, **86b:11059**
 Pinta, János (with Salerno, S.) On the comparative theory of primes. **86c:11082**
 See also Turán, Pál, **86b:11059**
 Salerno, S. See Pinta, János, **86c:11082**
 (Sós, Vera T.) See Turán, Pál, **86b:11059**
 Stolarsky, Kenneth B. Zeros of exponential polynomials and "reductionism". **86c:11083**
 Turán, Pál. ★ On a new method of analysis and its applications. **86b:11059**

secondary classifications (11N30)

- Dress, François. Théorèmes d'oscillations et fonction de Möbius. [Oscillation theorems and the Möbius function] **86f:11070**
 Pinta, János. Oscillatory properties of the remainder term of the prime number formula. **86m:11071**
 Révész, Sz. Gy. Note on a problem of Q. I. Rahman and P. Turán. **86c:30058**
 Vaaler, Jeffrey D. Some extremal functions in Fourier analysis. **86g:42005**

11N32 Primes represented by polynomials; other multiplicative structure of polynomial values

- Turk, Jan. Almost powers in short intervals. **86c:11084**

secondary classifications (11N32)

- Car, Mireille. Polynômes irréductibles de $F_q[X]$ de la forme $M+N$ où N est norme d'un polynôme de $F_{q^2}[X]$. [Irreducible polynomials of $F_q[X]$ of the form $M+N$, where N is the norm of a polynomial belonging to $F_{q^2}[X]$] **86j:11125**

11N35 Sieves

- Alladi, Krishnaswami. A new application of the sieve to probabilistic number theory. (See **86f:11007**)
 Deshouillers, J.-M. (with Iwaniec, Henryk) On the Brun-Titchmarsh theorem on average. **86c:11085**
 Eŭnatov, B. A. ★ Развитие метода решета. (Russian) [Development of the sieve method] **86c:11086**
 Fouvry, Étienne. Théorème de Brun-Titchmarsh: application au théorème de Fermat. [The Brun-Titchmarsh theorem: application to the Fermat theorem] **86j:11052**
 Friedlander, J. B. Gaps in certain sequences. (See **86f:11007**)
 Grupp, F. (with Richert, H.-E.) The functions of the linear sieve (summary). (See **86h:11002**)
 Halberstam, H. (with Richert, H.-E.) Weighted sieves. **86c:11068**
 Iwaniec, Henryk. See Deshouillers, J.-M., **86c:11085**
 Levin, B. V. (with Timofeev, N. M.) Distribution of arithmetic functions in the mean by progressions (theorems of Vinogradov-Bombieri type). (Russian) **86d:11074**
 Rawthorne, Daniel A. The linear sieve, revisited. **86d:11075**
 Richert, H.-E. See Halberstam, H., **86c:11068** and Grupp, F., **(86h:11002)**
 Timofeev, N. M. See Levin, B. V., **86d:11074**
 Xie, Sheng Gang. The linear combinatorial sieve. (Chinese) **86c:11069**

secondary classifications (11N35)

- Antipov, M. V. ★ Метод заполнения и некоторые задачи теории чисел. (Russian) [The method of completions and some problems of number theory] **86k:11054**

- Baker, R. C. (with Harman, Glyn) Unbalanced quadratic residues and nonresidues. **86g:11004**

- Balog, A. On the distribution of $p^k \bmod 1$. **86k:11039**
 Fouvry, Étienne. Autour du théorème de Bombieri-Vinogradov. [On the Bombieri-Vinogradov theorem] (See **86f:11006**)
 Harman, Glyn. See Baker, R. C., **86g:11004**
 Heath-Brown, D. E. The divisor function at consecutive integers. **86c:11071**
 Levin, B. V. The "average" distribution of $\mu(n)$ and $\Lambda_j(n)$ in progressions. **86f:11071**
 Meyer, Jacques René (with Tenenbaum, G.) Une remarque sur la conjecture de Schinzel. (English summary) [A remark on Schinzel's conjecture] **86h:11072**
 Recknagel, Winfried. Über eine Vermutung von S. Chowla und H. Walum. [On a conjecture of S. Chowla and H. Walum] **86i:11051**
 Tenenbaum, G. See Meyer, Jacques René, **86h:11072**
 Warlimont, Richard. On the set of natural numbers which only yield orders of abelian groups. **86k:11049**

11N37 Asymptotic results on arithmetic functions

- Babaev, G. (with Gafurov, N.; Ismoilov, D.) Some asymptotic formulas connected with divisors of polynomials. (Russian) **86j:11086**
 Cai, Tian Xin. Estimates of the average value of a class of number-theoretic functions. (Chinese) (Not in MR)
 Chidambaram, J. (with Sitaramachandra Rao, R.) Asymptotic results for a class of arithmetical functions. **86d:11076**
 De Koninck, Jean-Marie (with Ivic, Aleksandar) Sommes de réciproques de grandes fonctions additives. [Sums of reciprocals of large additive functions] **86f:11067**
 Fainleib, A. S. Tauberian inequalities and sums of multiplicative functions. **86h:11075**
 Fugelo, N. A. See Varbanec, P., **86h:11078**
 Gafurov, N. See Babaev, G. et al., **86j:11086**
 Hall, R. R. (with Tenenbaum, G.) On consecutive Farey arcs. **86c:11087**
 (with Tenenbaum, G.) The average orders of Hooley's Δ -functions. **86c:11070**
 Hausman, Miriam (with Shapiro, Harold N.) On practical numbers. **86a:11036**
 Heath-Brown, D. R. The divisor function at consecutive integers. **86c:11071**
 Hildebrand, Adolf. Fonctions multiplicatives et équations intégrales. [Multiplicative functions and integral equations] (See **86f:11006**)
 Hlawka, E. Über einen Satz von C. Radoux. [On a theorem of C. Radoux] **86j:11087**
 Horn, Günter. Ein Teilerproblem. [A divisor problem] **86c:11068**
 Indlekofer, K.-H. On multiplicative arithmetical functions. **86h:11076**
 Ismoilov, D. See Babaev, G. et al., **86j:11086**
 Ivic, Aleksandar. On the number of abelian groups of a given order and the number of prime factors of an integer. (Serbo-Croatian summary) **86j:11088**
 (with Pomerance, Carl) Estimates for certain sums involving the largest prime factor of an integer. **86g:11053**
 See also De Koninck, Jean-Marie, **86f:11067**
 Jia, Rong Qing. On the estimation of the partial sums of the series $\sum \mu(n)/n$. (Chinese) (Not in MR)
 Joshi, V. S. Sums of reciprocals of some nonvanishing multiplicative functions. **86k:11050**
 Jutila, M. On exponential sums involving the divisor function. **86f:11068**
 Kerov, S. V. See Vershik, A. M., **86k:11051**
 Mercier, Arnel (with Nowak, Werner Georg) On the asymptotic behaviour of sums $\sum g(n)(z/n)^s$. **86m:11072**
 Nicolas, Jean-Louis. Petites valeurs de la fonction d'Euler et hypothèse de Riemann. [Small values of the Euler function and the Riemann hypothesis] **86b:11060**
 Nowak, Werner Georg. On a result of Smith and Subbarao concerning a divisor problem. **86c:11072**
 On the divisor problem in an arithmetic progression. **86d:11077**
 Lattice points in a circle and divisors in arithmetic progressions. **86j:11069**
 See also Mercier, Arnel, **86m:11072**
 Pinta, János. On the partial sums of the Möbius function. (See **86d:11002**)
 Pomerance, Carl. See Ivic, Aleksandar, **86g:11053**
 Recknagel, Winfried. Über eine Vermutung von S. Chowla und H. Walum. [On a conjecture of S. Chowla and H. Walum] **86i:11051**
 Robn, G. Sur la différence $\text{Li}(\theta(z)) - \pi(z)$. (English summary) [On the difference $\text{Li}(\theta(z)) - \pi(z)$] **86j:11090**
 Grandes valeurs de la fonction somme des diviseurs et hypothèse de Riemann. (English summary) [Large values of the sum-of-divisors function and the Riemann hypothesis] **86f:11069**
 Ryszhov, N. P. Effectivization and elementarization of the smoothing method in problems of Goldbach type. (Russian) **86j:11091**
 Schwars, Wolfgang Karl (with Spilker, Jürgen) Eine Bemerkung zur Charakterisierung der fast-periodischen multiplikativen zahlentheoretischen Funktionen mit von Null verschiedenem Mittelwert. (English summary) [A remark on the characterization of the almost-periodic multiplicative number-theoretic functions with nonzero mean value] **86h:11077**
 (with Waterhouse, William C.) The asymptotic density of supersingular Fermat varieties. **86j:11092**
 Shapiro, Harold N. See Hausman, Miriam, **86a:11036**
 Sitaramachandra Rao, R. See Chidambaram, J., **86d:11076**
 Spilker, Jürgen. See Schwars, Wolfgang Karl, **86h:11077**
 Tenenbaum, G. See Hall, R. R., **86c:11070** and **86c:11087**
 Tulyaganova, M. I. A generalization of a theorem of Halász. II. (Russian) **86g:11054**
 Varbanec, P. (with Fugelo, N. A.) Multiplicative functions of special type in short intervals. **86h:11078**
 Vershik, A. M. (with Kerov, S. V.) Asymptotic behavior of the maximum and generic dimensions of irreducible representations of the symmetric group. (Russian) **86k:11051**
 Waterhouse, William C. See Schwars, Wolfgang Karl, **86j:11092**
 Xuan, Ti Zuo. On some sums of large additive number-theoretic functions. (Chinese. English summary) **86i:11052**

secondary classifications (11N37)

- Bantle, Gerhard Obere Abschätzung für die Anzahl der B -Zwillinge auf kurzen Intervallen. [Upper estimate for the number of B -twins on short intervals] **86b:11080**
- Borovkov, A. A. (with Lotov, V. I.; Sakhanenko, A. I.) Asymptotics of coefficients of factorized Euler polynomials. (Russian) **86g:26022**
- Bykovskii, V. A. Spectral expansions of certain automorphic functions and their number-theoretic applications. (Russian. English summary) **86j:11031**
- Delange, H. Generalization of Daboussi's theorem. **86b:11064**
- Erdős, Paul (with Tenenbaum, G.) Sur les diviseurs consécutifs d'un entier. (English summary) [The consecutive divisors of an integer] **86a:11037**
- Heath-Brown, D. R. Fermat's last theorem for "almost all" exponents. **86a:11011**
- Joshi, V. S. (with Vaidya, A. M.) Average behaviour of the largest k -prime divisor of an integer. **86f:11011**
- Kristhal, R. G. Distribution of values of multiplicative functions of class D_0 in primitive arithmetic progressions. (Russian) **86c:11066**
- Lotov, V. I. See Borovkov, A. A. et al., **86g:26022**
- Maier, Helmut (with Tenenbaum, G.) On the set of divisors of an integer. **86b:11057**
- Manstavicius, E. (with Skrabutėnas, R.) Summation of values of multiplicative functions. (Russian. English and Lithuanian summaries) **86d:11061**
- Moros, B. Z. ★ Vistas in analytic number theory. **86m:11092**
- Nicolas, Jean-Louis Sur la distribution des nombres entiers ayant une quantité fixée de facteurs premiers. [On the distribution of integers with a fixed number of prime factors] **86c:11067**
- Distribution des valeurs de la fonction d'Euler. (English summary) [Distribution of values of the Euler function] **86c:11076**
- Nowak, Werner Georg On the average order of the lattice rest of a convex planar domain. **86b:11084**
- Odlýsko, A. M. (with de Riele, H. J. J.) Disproof of the Mertens conjecture. **86m:11070**
- Prodinger, Helmut (with Tichy, R. F.) Über ein zahlentheoretisches Problem aus der Informatik. [On a number-theoretic problem in information science] **86c:11008**
- de Riele, H. J. J. See Odlýsko, A. M., **86m:11070**
- Sakhanenko, A. I. See Borovkov, A. A. et al., **86g:26022**
- Schinsiel, A. On the number of irreducible factors of a polynomial. II. **86k:11056**
- Scourfield, E. J. Uniform estimates for certain multiplicative properties. **86a:11001**
- Skrabutėnas, R. See Manstavicius, E., **86d:11061**
- Subbarao, M. V. See Suryanarayana, D., **86h:11005**
- Suryanarayana, D. (with Subbarao, M. V.) Arithmetical functions associated with the bi-unitary k -ary divisors of an integer. **86h:11005**
- Tenenbaum, G. Sur la probabilité qu'un entier possède un diviseur dans un intervalle donné. [On the probability that an integer has a divisor in a given interval] **86c:11009**
- See also Erdős, Paul, **86a:11037** and Maier, Helmut, **86b:11057**
- Tichy, R. F. See Prodinger, Helmut, **86c:11008**
- Timofeev, N. M. The set of points of growth of the distribution function of an additive function. (Russian) **86h:11062**
- Vaidya, A. M. See Joshi, V. S., **86f:11011**
- Vaughan, R. C. Sur le problème de Waring pour les cubes. (English summary) [On Waring's problem for cubes] **86j:11053**
- Wiertelak, K. On the density of some sets of primes. IV. **86c:11061**
- Zhang, Xian Ke Density of number fields of type $(2, 2, \dots, 2)$. **86d:11096**

11N45 Asymptotic results on counting functions for algebraic and topological structures

- Herszog, Joachim (with Schwarz, Wolfgang Karl) Über eine spezielle Partitionenfunktion, die mit der Anzahl der abelschen Gruppen der Ordnung n zusammenhängt. (English summary) [On a special partition function that is related to the number of abelian groups of order n] **86j:11093**
- Eine asymptotische Formel für eine Partitionenfunktion von A. Ivic. (English summary) [An asymptotic formula for a partition function of A. Ivic] **86j:11094**
- Mäki, Sirpa On the density of abelian number fields. **86h:11079**
- Murty, Maruti Ram (with Murty, V. Kumar) On groups of squarefree order. **86c:11073**
- Murty, V. Kumar See Murty, Maruti Ram, **86c:11073**
- Schwarz, Wolfgang Karl See Herzog, Joachim, **86j:11093**

secondary classifications (11N45)

- Bundschuh, Peter Zur Note von Lehmer über eine Konstante von Erdős-Turán. (English summary) [A note of Lehmer on a constant of Erdős-Turán] **86d:40003**
- Costa Pereira, N. Estimates for the Chebyshev function $\psi(x) - \theta(x)$. **86k:11005**
- Kolesnik, G. An improvement of the method of exponent pairs. **86m:11060**

11N56 Rate of growth of arithmetic functions

- Bateman, P. T. (with Pomerance, Carl; Vaughan, R. C.) On the size of the coefficients of the cyclotomic polynomial. **86c:11089**
- Erdős, Paul (with Sárközy, A.) On a problem of R. R. Hall. (Hungarian. English summary) **86c:11090**
- Heppner, E. On the existence of mean-values of multiplicative functions. **86c:11091**
- Pomerance, Carl See Bateman, P. T. et al., **86c:11089**
- Sárközy, A. See Erdős, Paul, **86c:11090**
- Vaughan, R. C. See Bateman, P. T. et al., **86c:11089**

secondary classifications (11N56)

- Indlekofer, K.-H. On multiplicative arithmetical functions. **86h:11076**
- Tenenbaum, G. Sur la probabilité qu'un entier possède un diviseur dans un intervalle donné. [On the probability that an integer has a divisor in a given interval] **86c:11009**

11N60 Distribution functions associated with additive and positive multiplicative functions

- Diamond, H. G. (with Rhoads, D.) The modulus of continuity of the distribution function of $\Phi(n)/n$. **86c:11092**
- Elliott, P. D. T. A. ★ Arithmetic functions and integer products. **86j:11095**
- Erdős, Paul (with Tenenbaum, G.) Sur les diviseurs consécutifs d'un entier. (English summary) [The consecutive divisors of an integer] **86a:11037**
- Rhoads, D. See Diamond, H. G., **86c:11092**
- Scourfield, E. J. A uniform coprimality result for some arithmetic functions. **86j:11096**
- Tenenbaum, G. See Erdős, Paul, **86a:11037**

secondary classifications (11N60)

- Hall, R. R. (with Tenenbaum, G.) On consecutive Farey arcs. **86c:11087**
- Stakenas, V. Local distribution of values of multiplicative arithmetic functions. (Russian. English and Lithuanian summaries) **86k:11045**
- Tenenbaum, G. See Hall, R. R., **86c:11087**

11N64 Other results on the distribution of values or the characterization of arithmetic functions

- Bantle, Gerhard Obere Abschätzung für die Anzahl der B -Zwillinge auf kurzen Intervallen. [Upper estimate for the number of B -twins on short intervals] **86b:11080**
- Dress, François Théorèmes d'oscillations et fonction de Möbius. [Oscillation theorems and the Möbius function] **86f:11070**
- Kátai, I. Characterization of $\log n$. **86m:11073**
- Kovács, Katalin On the characterization of complex-valued multiplicative functions. I. **86c:11074a**
- On the characterization of complex-valued multiplicative functions. II. **86c:11074b**
- Levin, B. V. The "average" distribution of $\mu(n)$ and $\Lambda_f(n)$ in progressions. **86f:11071**
- Moros, B. Z. On the distribution of integral and prime divisors with equal norms. (French summary) **86c:11075**
- Nicolas, Jean-Louis Distribution des valeurs de la fonction d'Euler. (English summary) [Distribution of values of the Euler function] **86c:11076**

secondary classifications (11N64)

- Elliott, P. D. T. A. The value distribution of reducible cubics. **86h:11028**
- Smythe, N. Growth functions and Euler series. **86f:16002**

11N69 Distribution of integers in special residue classes

secondary classifications (11N69)

- (Birch, Bryan J.) See Friedlander, J. B., **86i:11050**
- (Bombieri, Enrico) See Friedlander, J. B., **86i:11050**
- Cohen, Stephen D. Consecutive primitive roots in a finite field. **86c:11120**
- Consecutive primitive roots in a finite field. II. **86k:11074**
- Friedlander, J. B. (with Iwaniec, Henryk) Incomplete Kloosterman sums and a divisor problem. **86i:11050**
- Iwaniec, Henryk See Friedlander, J. B., **86i:11050**
- Narkiewicz, W. ★ Uniform distribution of sequences of integers in residue classes. **86g:11014**

11N80 Generalized primes and integers

- Stankus, E. Analytic continuation of the modified L -function. (Russian. English and Lithuanian summaries) **86k:11052**

11N99 None of the above, but in this section

- Hildebrand, Adolf Über die punktweise Konvergenz von Ramanujan-Entwicklungen zahlentheoretischer Funktionen. [On the pointwise convergence of Ramanujan expansions of number-theoretic functions] **86d:11078**
- Kuttner, B. (with Sukla, Indulata) On $(\mathcal{D}, h(n))$ summability methods. **86c:11093**
- Sukla, Indulata See Kuttner, B., **86c:11093**

secondary classifications (11N99)

- Wolfskill, J. The distribution of reduced numbers in an ideal of a real cubic number field. **86m:11077**

11Pxx Additive number theory; partitions

- (Bredikhin, B. M.) See Investigations on additive problems of number theory, **86f:11072**
- Investigations on additive problems of number theory ★ Исследования по аддитивным проблемам теории чисел. (Russian) [Investigations on additive problems of number theory] **86f:11072**

secondary classifications (11Pxx)

- Karatsuba, A. A. ★ Основы аналитической теории чисел. (Russian) [Principles of analytic number theory] **86d:11001**

11P05 Waring's problem and variants, sums of different powers

- Arkhipov, G. I. (with Zhitkov, A. N.) Waring's problem with nonintegral exponent. (Russian) **86h:11081**
- Cook, Roger J. An effective seven cube theorem. **86c:11077**
- Flanders, Harley A tale of two squares—and two rings. **86d:11079**
- Golubeva, E. P. Application of the Shimura lift to the problem of representation of large numbers by ternary quadratic forms. (Russian) **86h:11082**
- Waring's problem for a ternary quadratic form and an arbitrary even power. (Russian) **86h:11083**
- Grosswald, Emil Partitions into squares. **86h:11061**

- Hirschhorn, M. A simple proof of Jacobi's two-square theorem. **86m:11074**
 Lu, Ming Gao On the problem concerning the sums of powers of natural numbers. **86c:11079**
 McCurley, Kevin S. An effective seven cube theorem. **86c:11078**
 Naftalevich, A. (with Schreiber, Morris) Trigonometric polynomials and sums of squares. **86m:11075**
 Polyanakfi, A. A. The Waring problem in algebraic fields. (Russian) **86j:11097**
 Schreiber, Morris See Naftalevich, A., **86m:11075**
 Small, Charles Diagonal equations over large finite fields. **86e:11094**
 Todorov, Pavel G. Erratum: "The Waring formula for the power sums" [Punjab Univ. J. Math. (Lahore) 14/15 (1981/82), 165-173; MR 85j:11122]. **86j:11096**
 Tripathi, S. M. Like sums of squares of consecutive natural numbers. **86g:11055**
 Vaughan, R. C. Sur le problème de Waring pour les cubes. (English summary) [On Waring's problem for cubes] **86i:11053**
 Zhitkov, A. N. See Arkhipov, G. I., **86h:11061**

secondary classifications (11P05)

- Beck, Eugen Über die Darstellung einer positiven rationalen Zahl als Quotient zweier Summen aus fünften Potenzen nichtnegativer ganzer Zahlen. [On the representation of a positive rational number as quotient of two sums of fifth powers of nonnegative integers] **86c:11023**
 Hossain, Md. Faeze Integral solution of $x^3 + y^3 = 2(a^3 - b^3)$ for integers a and b . (Bengali summary) **86d:11022**
 Markovich, O. F. The elementary smoothing method in systems of Diophantine equations of Waring type. (Russian summary) **86h:11029**
 Sulakvelidze, L. A. The number of representations of numbers by certain regular and semiregular ternary quadratic forms belonging to multiclass genera. II. (Russian) **86f:11028**

11P21 Lattice points in specified regions

- Fricker, F. Gelöste und ungelöste Gitterpunktprobleme. [Solved and unsolved lattice point problems] **86a:11038**
 Kritzel, E. Ω -estimates for the number of lattice-points in n -dimensional domains. **86f:11073**
 Moros, B. Z. On the number of primitive lattice points in plane domains. **86e:11095**
 Müller, Wolfgang Über zufällig verteilte Gitterpunkte und ein Analogon zum klassischen Ellipsoidproblem. (English summary) [On randomly distributed lattice points and an analogue to the classical ellipsoid problem] **86j:11099**
 Novák, Dětislav Lattice points in multidimensional ellipsoids. (Russian) **86d:11080**
 Nowak, Werner Georg On the average order of the lattice rest of a convex planar domain. **86h:11084**
 An Ω_4 -estimate for the number of lattice points in a sphere. **86k:11053**
 Schmidt, Wolfgang M. Integer points on curves and surfaces. **86d:11081**

secondary classifications (11P21)

- Bartels, Hans-Jochen Uniform distribution in linear algebraic groups and related Diophantine problems. **86f:11027**
 Betke, U. Lattice points and lattice polytopes. **86h:52013**
 Cherkaskii, V. D. See Zamanakli, L. Ya., **86g:90046**
 Kallies, Jürgen Verallgemeinerte Dedekindsche Summen und ein Gitterpunktproblem im n -dimensionalen Raum. [Generalized Dedekind sums and a lattice point problem in n -dimensional space] **86d:11004**
 Nowak, Werner Georg Lattice points in a circle and divisors in arithmetic progressions. **86j:11089**
 Thurnheer, Peter Correction and addendum: "On a hyperbolic lattice point problem" [Comment. Math. Helv. 56 (1981), no. 2, 240-271; MR 83a:58094]. (German) **86b:58127**
 Zamanakli, L. Ya. (with Cherkaskii, V. D.) A formula for finding the number of integer points under a straight line and its application. (Russian) **86g:90046**

11P32 Goldbach-type theorems

- Antipov, M. V. ★Метод заполнения и некоторые задачи теории чисел. (Russian) [The method of completions and some problems of number theory] **86k:11054**
 Ding, Ping See Zhang, Ming Yao, **86c:11080**
 Fedulova, T. M. Semiternary problems for almost all numbers. (Russian) **86j:11100**
 Lu, Ming Gao On the Goldbach number. **86h:11063**
 Ng, Eugene K.-S. On the sequences $N - p$, $p + 2$ and the parity problem. **86e:11096**
 Shen, Fu Xing See Wang, Shi Qiang et al., **86j:11101**
 Wang, Shi Qiang (with Shen, Fu Xing; Yue, Qi Jing) Number-theoretic properties of some Goldbach and non-Goldbach commutative rings. (Chinese. English summary) **86j:11101**
 Extensions with and without Goldbach property of some cubic rings of integers. **86b:11063**
 Yakovleva, N. A. Problems of Goldbach-Euler type in the case of an arithmetic progression. (Russian) **86h:11085**
 Yue, Qi Jing See Wang, Shi Qiang et al., **86j:11101**
 Zhang, Ming Yao (with Ding, Ping) An improvement of the estimate of Schnirelman's constant. **86c:11080**

secondary classifications (11P32)

- Bredikhin, B. M. A heuristic principle for nonlinear additive problems. (Russian) **86j:11102**

11P45 Other additive questions involving primes

- Balog, A. (with Sárközy, A.) On sums of sequences of integers. I. **86g:11056a**
 (with Sárközy, A.) On sums of sequences of integers. II. **86g:11056b**
 (with Sárközy, A.) On sums of sequences of integers. III. **86g:11056c**
 Bredikhin, B. M. A heuristic principle for nonlinear additive problems. (Russian) **86j:11102**
 Erdős, Paul Some problems on additive number theory. **86k:11055**
 Liu, Ming Chit A bound for prime solutions of some ternary equations. **86g:11057**
 Pirgov, D. T. (with Tokarev, D. D.) Some theorems for integer polynomials. (Bulgarian. English and Russian summaries) **86c:11081**
 Romani, F. Computations concerning primes and powers of two. **86c:11082**
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secondary classifications (11P45)

- Fendel, Daniel Prime-producing polynomials and principal ideal domains. **86j:11032**
 Rykova, N. P. Effectivization and elementarization of the smoothing method in problems of Goldbach type. (Russian) **86j:11091**

11P55 Applications of the Hardy-Littlewood method [See also 11D85.]

- Balog, A. (with Sárközy, A.) On sums of integers having small prime factors. I, II. **86i:11054**
 Sárközy, A. On additive representations of integers. IV. **86g:11058**
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 Tulyaganova, M. I. Prime vectors in degenerate lattices. (Russian) **86f:11074**
 Vaughan, R. C. Sums of three cubes. **86j:11103**

secondary classifications (11P55)

- Beridse, R. I. Formulas for the number of representations of integers by reduced nondiagonal positive quaternary forms belonging to one-class genera. (Russian. English and Georgian summaries) **86b:11029**
 Car, Mireille Sommes de puissances et d'irréductibles dans $F_q[X]$. [Sums of powers and irreducibles in $F_q[X]$] **86g:11075a**
 Sommes de carrés de polynômes irréductibles dans $F_q[X]$. [Sums of squares of irreducible polynomials in $F_q[X]$] **86g:11075b**
 Golubeva, E. P. Waring's problem for a ternary quadratic form and an arbitrary even power. (Russian) **86h:11083**
 Hooley, C. Some recent advances in analytical number theory. **86j:11033**
 On the Pellian equation and the class number of indefinite binary quadratic forms. **86d:11032**
 (Karatsuba, A. A.) See Vaughan, R. C., **86g:11002**
 (Lavrik, A. A.) See Vaughan, R. C., **86g:11002**
 Schmidt, Wolfgang M. ★Analytische Methoden für Diophantische Gleichungen. Einführende Vorlesungen. (German) [Analytical methods for Diophantine equations. Introductory lectures] **86f:11024**
 Analytic methods for congruences, Diophantine equations and approximations. **86m:11020**
 The density of integer points on homogeneous varieties. **86h:11027**
 Vaughan, R. C. ★Метод Харди-Литтлвуда. (Russian) [The Hardy-Littlewood method] **86g:11002**

11P57 Partitions: recurrence relations, generating functions, etc.

- Agarwal, Ratan P. On the paper: "Ramanujan's 'lost' notebook. I. Partial θ -functions" [Adv. in Math. 41 (1981), no. 2, 137-172; MR 83m:10034a] by G. E. Andrews. **86d:11082**
 (Andrews, George E.) See Agarwal, Ratan P., **86d:11082**
 Denis, R. Y. On certain multiple q -series expansions involving basic hypergeometric functions. **86h:11086**
 Paule, Peter On identities of the Rogers-Ramanujan type. **86i:11055**

secondary classifications (11P57)

- Andrews, George E. (with Baxter, Rodney James; Forrester, P. J.) Eight-vertex SOS model and generalized Rogers-Ramanujan-type identities. **86a:82001**
 Baxter, Rodney James See Andrews, George E. et al., **86a:82001**
 Forrester, P. J. See Andrews, George E. et al., **86a:82001**
 Jimbo, Michio (with Miwa, Tetsuji) A solvable model and related Rogers-Ramanujan type identities. **86j:82060**
 Kirschenhofer, Peter (with Proding, Helmut) A short proof for a partition identity of Hwang and Wei. **86h:05016**
 Li, Xiang Wen A class of ordered partitions. (Chinese. English summary) **86g:05006**
 Löffler, Andreas Über eine Partition der nat. Zahlen und ihre Anwendung beim U-Test. [On a partition of natural numbers and its application in the U-test] **86c:62051**
 Miwa, Tetsuji See Jimbo, Michio, **86j:82060**
 Proding, Helmut See Kirschenhofer, Peter, **86h:05016**

11P65 Partitions: multipartite, and related problems

- Buell, Duncan A. On a problem involving partitions. **86e:11097**

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- Andrews, George E. On a partition theorem of N. J. Fine. **86c:05023**
 Jucys, A.-A. A. Partitions into bounded parts. Multiplicity of terms of shells of equivalent particles. (Russian) **86i:05015**
 Oldani, J. F. On partitions into at most m parts. **86h:05017**

11P68 Partitions: restricted by congruence, inequality or repetition conditions

Nešetřil, Jaroslav (with Rödl, Vojtěch) Two proofs in combinatorial number theory. **86c:11063**

Rödl, Vojtěch See Nešetřil, Jaroslav, **86c:11063**

11P72 Partitions: asymptotic, convergent series expansions

Erdős, Paul (with Szalay, M.) On the statistical theory of partitions. **86f:11075**

Puccio, L. The number of noncircular partitions of an integer m into k parts. (Italian. English summary) **86i:11056**

Szalay, M. See Erdős, Paul, **86f:11075**

secondary classifications (11P72)

Brak, R. See Joyce, G. S., **86i:82056**

Herszog, Joachim (with Schwarz, Wolfgang Karl) Über eine spezielle Partitionenfunktion, die mit der Anzahl der abelschen Gruppen der Ordnung n zusammenhängt. (English summary) [On a special partition function that is related to the number of abelian groups of order n] **86j:11093**

Eine asymptotische Formel für eine Partitionenfunktion von A. Ivic. (English summary) [An asymptotic formula for a partition function of A. Ivic] **86j:11094**

Joyce, G. S. (with Brak, R.) An exact solution for a spiral self-avoiding walk model on the triangular lattice. **86i:82056**

Schwarz, Wolfgang Karl See Herzog, Joachim, **86j:11093**

11P80 Partitions: miscellaneous results

Andrews, George E. Multiple series Rogers-Ramanujan type identities. **86c:11084**

Stojaković, Mirko D. Rooting sequences. **86c:11098**

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Alder, Henry L. (with Muwaš, Amin A.; Lewis, Jeffrey K.) Euler's partition identity— are there any more like it? **86k:05006**

Andrews, George E. On the Wall polynomials and the L-M-W conjectures. **86b:33003**

(with Baxter, Rodney James; Forrester, P. J.) Eight-vertex SOS model and generalized Rogers-Ramanujan-type identities. **86a:82001**

Baxter, Rodney James See Andrews, George E. et al., **86a:82001**

Forrester, P. J. See Andrews, George E. et al., **86a:82001**

Lewis, Jeffrey K. See Alder, Henry L. et al., **86k:05006**

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Odlyzko, A. M. (with Richmond, L. B.) On the number of distinct block sizes in partitions of a set. **86e:05007**

Richmond, L. B. See Odlyzko, A. M., **86e:05007**

11P99 None of the above, but in this section

Plaksin, V. A. Asymptotic formula for the number of representations of a natural number by a pair of quadratic forms, the arguments of one of which are primes. (Russian) **86c:11085**

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Freud, R. On sums of subsequent terms of permutations. **86j:11002**

11Qxx Other arithmetic-analytic topics

11Q05 Analytic functions

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Boyaraky, Maurizio The Reich trace formula. (French summary) **86m:11043**

(Fresnel, Jean) See Boyaraky, Maurizio, **86m:11043**

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Duponcheel, Luc Non-Archimedean improper measures on homogeneous spaces. **86m:11076**

Koblitz, Neal \star p -adic numbers, p -adic analysis, and zeta-functions. **86c:11086**

Motakis, Elhanan L'arbre d'un quasi connexe: un invariant conforme p -adique. (English summary) [The tree of a quasiconnected set: a p -adic conformal invariant] **86j:11059**

Schikhof, W. H. \star Ultrametric calculus. **86j:11104**

A note on p -adic integration. **86h:11087**

Schramm, Ruben Quasiconformality and invertibility of transformations in non-Archimedean vector spaces. **86i:11057**

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Dominguez, Jesús M. The Gel'fand subalgebra of the ring of continuous functions with values in a non-Archimedean valued field. (Spanish) **86g:46111**

Escassut, Alain Maximum principle for analytic elements and Lubin-Hensel's theorem in $H(D)[Y]$. **86b:32020**

11Rxx Algebraic number theory: global fields {For complex multiplication, see 11G15.}

Kus'min, L. V. Algebraic number fields. (Russian) **86f:11076**

11R04 Algebraic numbers: general

Mignotte, M. On algebraic integers of small measure. (See **86d:11002**)

Wollfkill, J. The distribution of reduced numbers in an ideal of a real cubic number field. **86m:11077**

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Pinch, R. G. E. α -convexity. **86c:11114**

Smyth, C. J. Totally positive algebraic integers of small trace. (French summary) **86f:11091**

The mean values of totally real algebraic integers. **86c:11115**

11R06 PV-numbers and generalizations; other special algebraic numbers

Lewin, L. The inner structure of the dilogarithm in algebraic fields. **86c:11099**

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Bessis, Daniel See Moussa, Pierre et al., **86f:58133**

Geronimo, J. S. See Moussa, Pierre et al., **86f:58133**

Grstmaier, Kurt On the construction of primitive elements in field extensions. **86j:12005**

Moussa, Pierre (with Geronimo, J. S.; Bessis, Daniel) Ensembles de Julia et propriétés de localisation des familles itérées d'entiers algébriques. (English summary) [Julia sets and localization properties of iterated families of algebraic integers] **86f:58133**

Pisier, G. Conditions d'entropie et caractérisations arithmétiques des ensembles de Sidon. [Entropy conditions and arithmetic characterizations of Sidon sets] **86j:43003**

11R09 Polynomials (irreducibility, etc.)

Dèbes, Pierre Une version effective du théorème d'irréductibilité de Hilbert. [An effective version of Hilbert's irreducibility theorem] **86a:11039**

Györy, K. Effective finiteness theorems for polynomials with given discriminant and integral elements with given discriminant over finitely generated domains. **86b:11064a**

Correction to the paper: "Effective finiteness theorems for polynomials with given discriminant and integral elements with given discriminant over finitely generated domains". **86b:11064b**

Kaltfen, Erich (with Yui, Noriko) Explicit construction of the Hilbert class fields of imaginary quadratic fields with class numbers 7 and 11. **86h:11088**

Okuneva, V. A. The Newton polyhedron of the superposition of polynomials. (Russian) **86c:11087**

Rogers, Kenneth (with Straus, E. G.) Infinitely integer-valued polynomials over an algebraic number field. **86i:11058**

Schinsiel, A. On the number of irreducible factors of a polynomial. II. **86k:11056**

Reducible lacunary polynomials. (See **86b:11063**)

Reducibility of lacunary polynomials. V. **86d:11083**

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Adleman, Leonard M. (with Odlyzko, A. M.) Irreducibility testing and factorization of polynomials. **86f:11097**

Fouché, Willem A reciprocity law for polynomials with Bernoulli coefficients. **86d:11085**

Gerber, Hans U. Wronski's formula and the resultant of two polynomials. **86d:13006**

Heider, Franz-Peter (with Kolvenbach, Paulgerd) The construction of $SL(2,3)$ -polynomials. **86g:11063**

Hu, Sen (with Wang, Dong Ming) Fast factorization over the field of rational numbers and its algebraic extension fields. (Chinese) (Not in MR)

Kolvenbach, Paulgerd See Heider, Franz-Peter, **86g:11063**

Landau, Susan Factoring polynomials over algebraic number fields. **86d:11102**

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Halter-Koch, Frans An Artin character and representations of primes by binary quadratic forms. III. **86f:11077**

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Hoffmann, B. (with Hettling, K. F.; Browkin, Jerzy) On the group generated by symbols in $K_2 O_F$ for real quadratic fields F . **86a:11040**

Howe, Lawrence J. See Williams, Kenneth S. et al., **86f:11078**

Naito, Hirotada On the ideal class groups of totally imaginary quadratic extensions. **86k:11057**

Vaughan, Theresa P. The construction of unramified cyclic quartic extensions of $Q(\sqrt{m})$. **86j:11060**

Williams, Kenneth S. (with Friesen, Christian; Howe, Lawrence J.) Criteria for biquadratic residuacity modulo a prime p involving quaternary representations of p . **86f:11078**

(with Friesen, Christian) Remark on the class number of $Q(\sqrt{2p})$ modulo 8 for $p \equiv 5 \pmod{8}$ a prime. **86d:11084**

secondary classifications (11R11)

Brattström, Gudrun (with Lichtenbaum, Stephen) Jacobi-sum Hecke characters of imaginary quadratic fields. **86h:11104**

Halter-Koch, Frans Über den 4-Rank der Klassengruppe quadratischer Zahlkörper. (English summary) [On the 4-rank of the class group of quadratic number fields] **86a:11041**

- Kahane, Jean-Pierre La théorie de Théodore des corps quadratiques réels. [Theodoros' theory of real quadratic fields] 86k:11011
- Kaplan, Pierre (with Williams, Kenneth S.; Yamamoto, Yoshihiko) An application of dihedral fields to representations of primes by binary quadratic forms. 86e:11025
- Lenstra, H. W., Jr. On the calculation of regulators and class numbers of quadratic fields. 86g:11080
- Lichtenbaum, Stephen See Brattström, Gudrun, 86h:11104
- Oesterlé, Joseph Nombres de classes des corps quadratiques imaginaires. [Class numbers of imaginary quadratic fields] 86k:11064
- Scarowsky, M. On a formal analogue of the Bernoulli numbers. 86h:11019
- Takhtadzhyan, L. A. Application of spectral methods to the arithmetic of real quadratic fields. (Russian) 86d:11045
- Watt, Stephen B. Restricted ramification for imaginary quadratic number fields and a multiplier free group. 86d:11093
- Williams, Kenneth S. See Kaplan, Pierre et al., 86e:11025
- Yamamoto, Yoshihiko See Kaplan, Pierre et al., 86e:11025

11R16 Cubic and quartic extensions

- (Albert, A. A.) See Zhang, Xian Ke, 86b:11066
- Bouhassane, Mostapha Algorithme de Jacobi-Perron dans les corps de nombres de degré 4. [The Jacobi-Perron algorithm in number fields of degree four] 86c:11088
- Dueck, G. W. (with Williams, Hugh Cowie) Computation of the class number and class group of a complex cubic field. 86m:11078
- Ennola, Velkko (with Turunen, Reino) On totally real cubic fields. 86e:11100
- Feng, Ke Qin Explicit description of quartic cyclic number fields. (Chinese) 86j:11105
- Funakura, Takao On integral bases of pure quartic fields. 86c:11089
- Iimura, Kiyosaki A note on ramified principal ideals in a non-Galois cubic field. 86j:11061
- Ito, Hiroshi Congruence relations of Ankeny-Artin-Chowla type for pure cubic fields. 86c:11059
- Ledermann, Walter (with van der Ploeg, Carol) Integral bases of dihedral number fields. I. 86h:11089
- Llorente, Pascual Cubic irreducible polynomials in $\mathbb{Z}_p[X]$ and the decomposition of primes in a cubic field. 86c:11090
- Odai, Yoshitaka Some unramified cyclic cubic extensions of pure cubic fields. 86b:11065
- van der Ploeg, Carol See Ledermann, Walter, 86h:11089
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- Watabe, Mutsuo On certain cubic fields. V. 86f:11079
- On certain cubic fields. VI. 86f:11080
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- Zhang, Xian Ke Note on a paper: "The integers of normal quartic fields" [Ann. of Math. (2) 31 (1930), 381-418; Jbuch 56, 870] by A. A. Albert. (Chinese summary) 86b:11066
- Note on a paper by A. A. Albert. 86k:11058

secondary classifications (11R16)

- Bump, Daniel (with Goldfeld, Dorian) A Kronecker limit formula for cubic fields. (See 86f:11003)
- Endô, Akira Remark on the divisibility of the class numbers of certain quartic number fields by 5. 86c:11093
- Ennola, Velkko (with Turunen, Reino) On cyclic cubic fields. 86m:11085
- Goldfeld, Dorian See Bump, Daniel, 86f:11003
- van der Linden, F. J. Euclidean rings of integers of fourth degree fields. 86b:11071
- Turunen, Reino See Ennola, Velkko, 86m:11085
- Wang, Shi Qiang Extensions with and without Goldbach property of some cubic rings of integers. 86b:11063

11R18 Cyclotomic extensions

- Cougnard, Jean La non existence de base normale relative dans le corps des racines 11-èmes de l'unité. [The nonexistence of a relative normal basis in the field of 11th roots of unity] (See 86b:11003)
- Fouché, Willem A reciprocity law for polynomials with Bernoulli coefficients. 86d:11065
- Lüneburg, Helms Resultanten von Kreisteilungspolynomen. [Resultants of cyclotomic polynomials] 86b:11067
- Nakagoshi, Norikata A construction of unramified abelian l -extensions of regular Kummer extensions. 86e:11101

secondary classifications (11R18)

- Bhaskaran, M. Corrigenda: "Construction of genus field and some applications" [J. Number Theory 11 (1979), no. 4, 488-497; MR 80j:12002]. 86k:11065
- Coleman, Robert F. On an Archimedean characterization of the circular units. 86d:11088
- Kersten, I. (with Michalíček, J.) A remark about Vandiver's conjecture. 86e:11107
- Michalíček, J. See Kersten, I., 86e:11107
- Rohrlich, David E. Courbes elliptiques, fonctions L , et tours cyclotomiques. [Elliptic curves, L -functions and cyclotomic towers] 86k:11031
- Washington, Lawrence C. On some cyclotomic congruences of F. Thaine. 86c:11019

11R20 Other abelian and metabelian extensions

- Egami, Shigeki On finiteness of the numbers of Euclidean fields in some classes of number fields. 86c:11102
- Gerth, Frank, III Sufficiency of genus theory for certain number fields. 86h:11090
- Kostrá, Jura Orders with a normal basis. 86k:11059
- Schmidt, C.-G. Stickelbergerideale und Kreiseinheiten zu Klassenkörpern abelscher Zahlkörper. [Stickelberger ideals and cyclotomic units for class fields of abelian number fields] 86d:11086
- Zhang, Xian Ke On number fields of type (l, l, \dots, l) . 86j:11106
- A simple construction of genus fields of abelian number fields. 86h:11091

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- Childs, L. N. Tame Kummer extensions and Stickelberger conditions. 86d:11094
- Endô, Akira Class number relation between certain sextic number fields. 86k:11062
- Horie, Kuniki On the index of the Stickelberger ideal and the cyclotomic regulator. 86j:11111
- Jacobson, Elliot (with Véles, William Yalaa) On the adèle rings of radical extensions of the rationals. 86k:11070
- Kersten, I. (with Michalíček, J.) A remark about Vandiver's conjecture. 86e:11107
- Michalíček, J. See Kersten, I., 86e:11107
- Nakamura, Ken Calculation of the class numbers and fundamental units of abelian extensions over imaginary quadratic fields from approximate values of elliptic units. 86h:11097
- Véles, William Yalaa See Jacobson, Elliot, 86k:11070

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- Dubois, Eugène See Paysant-Le Roux, R., 86c:11091
- Lan, Yi Zhong A criterion on the complete splitting of a prime ideal. 86k:11060
- Leutbecher, Armin Euclidean fields having a large Lenstra constant. (French summary) 86j:11107
- Maurer, Donald Stickelberger's criterion, Galois algebras, and tame ramification in algebraic number fields. 86d:11087
- Nart, Enric On the index of a number field. 86h:11092
- Paysant-Le Roux, R. (with Dubois, Eugène) Une application des nombres de Pisot à l'algorithme de Jacobi-Perron. (English summary) [An application of the Pisot numbers to the Jacobi-Perron algorithm] 86c:11091
- Takeuchi, Kiso Totally real algebraic number fields of degree 5 and 6 with small discriminant. 86i:11060
- Véles, William Yalaa Several results on radical extensions. 86m:11079

secondary classifications (11R21)

- Conner, P. E. (with Perlis, R.) ★ A survey of trace forms of algebraic number fields. 86j:11021
- Ennola, Velkko (with Mäki, Sirpa; Turunen, Reino) On real cyclic sextic fields. 86m:11084
- Hayashi, Heima On elliptic units and class number of a certain dihedral extension of degree 2l. 86m:11081
- Mäki, Sirpa On the density of abelian number fields. 86h:11079
- See also Ennola, Velkko et al., 86m:11084
- Maus, E. Zur Arithmetik einiger Serien nichtauflösbarer Gleichungen 5. Grades. [On the arithmetic of some series of unsolvable equations of 5th degree] 86g:12006
- Nart, Enric On the index of a number field. (Catalan) 86j:11113
- Perlis, R. See Conner, P. E., 86j:11021
- Turunen, Reino See Ennola, Velkko et al., 86m:11084

11R23 Infinite algebraic extensions; Iwasawa theory

- Barak, D. Sur la norme de certaines séries d'Iwasawa (une démonstration analytique p -adique du théorème de Ferrero-Washington). [On the norm of certain Iwasawa series (a p -adic analytic proof of the Ferrero-Washington theorem)] 86c:11092
- Brattström, Gudrun The invariants of the Tate-Shafarevich group in a \mathbb{Z}_p -extension can be infinite. 86m:11080
- Friedman, Eduardo Iwasawa invariants. 86h:11093
- Gold, Robert (with Madan, Manohar) Iwasawa invariants. 86j:11108
- Goss, David The arithmetic of function fields. II. The "cyclotomic" theory. 86k:11061
- Madan, Manohar See Gold, Robert, 86j:11108
- Sinnott, Warren M. On p -adic L -functions and the Riemann-Hurwitz genus formula. 86e:11103
- Wingberg, Kay Ein Analogon zur Fundamentalgruppe einer Riemannschen Fläche im Zahlkörperfall. [An analogue of the fundamental group of a Riemann surface in the case of a number field] 86e:11104

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- Gras, Georges Logarithme p -adique et groupes de Galois. [p -adic logarithm and Galois groups] 86g:11066
- Greenberg, Ralph On the critical values of Hecke L -functions for imaginary quadratic fields. 86e:11111
- Jannsen, Uwe On the structure of Galois groups as Galois modules. 86a:11043
- Jaulent, Jean-François Sur quelques représentations l -adiques liées aux symboles et à la l -ramification. [Some l -adic representations associated with symbols and l -ramification] 86k:11069
- Sur l'indépendance l -adique de nombres algébriques. (English summary) [The l -adic independence of algebraic numbers] 86j:11122
- Komatsu, Keichi On zeta-functions and cyclotomic \mathbb{Z}_p -extensions of algebraic number fields. 86a:11046
- Rohrlich, David E. On L -functions of elliptic curves and anticyclotomic towers. 86j:11038a
- On L -functions of elliptic curves and cyclotomic towers. 86j:11038b
- Schneider, Peter The Iwasawa theoretic version of the conjecture of Birch and Swinnerton-Dyer. (See 86f:11006)
- p -adic height pairings. II. 86j:11063

11R27 Units and factorization

- Buchmann, Johannes A criterion for the equivalence of two ideals. 86h:11094
- A generalization of Voronoi's unit algorithm. I. 86g:11062a
- A generalization of Voronoi's unit algorithm. II. 86g:11062b
- Coleman, Robert F. On an Archimedean characterization of the circular units. 86d:11088

- Emsalem, M.** (with Kisilevsky, H. H.; Wales, D. B.) Indépendance linéaire sur $\bar{\mathbb{Q}}$ de logarithmes p -adiques de nombres algébriques et rang p -adique du groupe des unités d'un corps de nombres. (English summary) [Linear independence over $\bar{\mathbb{Q}}$ of p -adic logarithms of algebraic numbers and p -adic rank of the unit group of a number field] **86e:11105**
- Evans, Ronald** The octic and biotic character of certain quadratic units. **86j:11109**
- Halter-Koch, Frans** On the factorization of algebraic integers into irreducibles. **86e:11106**
- Hayashi, Heima** On elliptic units and class number of a certain dihedral extension of degree 21. **86m:11081**
- Hellegouarch, Y.** See Paysant-Le Roux, R. et al., **86b:11068**
- Hirabayashi, Mikihito** (with Yoshino, Ken-ichi) The unit indices of imaginary abelian number fields. **86i:11061**
- Hoechsmann, K.** (with Sehgal, Sudarshan K.; Weiss, Alfred R.) Cyclotomic units and the unit group of an elementary abelian group ring. **86j:11110**
- Kaczorowski, J.** On completely irreducible algebraic integers. **86f:11081**
- Kisilevsky, H. H.** See Emsalem, M. et al., **86e:11105**
- Levesque, Claude** An independent system of units in certain algebraic number fields. **86m:11082**
- McQuillan, Donald L.** See Paysant-Le Roux, R. et al., **86b:11068**
- Paysant-Le Roux, R.** (with McQuillan, Donald L.; Hellegouarch, Y.) Unités de certains sous-anneaux de corps de fonctions algébriques. (English summary) [Units of some subrings of algebraic function fields] **86b:11068**
- Sehgal, Sudarshan K.** See Hoechsmann, K. et al., **86j:11110**
- Waldschmidt, Michel** A lower bound for the p -adic rank of the units of an algebraic number field. **86h:11095**
- Wales, D. B.** See Emsalem, M. et al., **86e:11105**
- Weber, Helmut** Über die Verteilung ganzer Zahlen mit ausgezeichneten Eigenschaften der Faktorisierung in algebraischen Zahlkörpern. [On the distribution of integers with specified factorization properties in algebraic number fields] **86m:11083**
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- Murty, Maruti Ram On Artin's conjecture. 86f:11087
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 Zhang, Xian Ke Density of number fields of type $(2, 2, \dots, 2)$. 86d:11090

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- Fried, M. The nonregular analogue of Tchebotarev's theorem. 86c:11101
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11R47 Other analytic theory

- Gyoja, Akihiko (with Kawanaka, Noriaki) Gauss sums of prehomogeneous vector spaces. 86j:11119
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11R52 Quaternion and other division algebras: arithmetic, zeta functions

- Fröhlich, Albrecht Gauss sums. (See 86f:11006)

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- Bushnell, Colin J. (with Reiner, Irving) Analytic continuation of partial zeta functions of arithmetic orders. 86f:11088
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11R58 Arithmetic theory of algebraic function fields [See also 14-XX.]

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Bellinson, A. Higher regulators and values of L -functions. (Russian) 86h:11103

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11R80 Totally real and totally positive fields [See also 12J15.]

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Teterin, Yu. G. Representation of numbers by ternary quadratic forms over maximal orders of algebraic number fields. (Russian) 86a:11017

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11S05 Polynomials

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Smyth, C. J. Totally positive algebraic integers of small trace. (French summary) 86f:11091

The mean values of totally real algebraic integers. 86e:11115

11S15 Ramification and extension theory

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Hilliker, David Lee An algorithm for computing the values of the ramification index in the Puiseux series expansions of an algebraic function. 86i:11068

Laubie, François Sur la ramification des extensions de Lie. (English summary) [On the ramification of Lie extensions] 86k:11071

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Mukhamedov, V. G. Local extensions associated with l -extensions of number fields with bounded ramification. (Russian) 86b:11074

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Taylor, Martin J. Formal groups and the Galois module structure of local rings of integers. 86m:11088

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Prasad, Gopal (with Raghunathan, M. S.) Topological central extensions of semisimple groups over local fields. 86c:20051a

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11S31 Class field theory; p -adic formal groups

Ishibashi, Makoto On a proof of the Artin-Hasse formula for the norm residue symbol. 86g:11069

Sekiguchi, Koji The Lubin-Tate theory for formal power series fields with finite coefficient fields. 86c:11105

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Vostokov, S. V. Explicit construction of the theory of class fields of a multidimensional local field. (Russian) 86m:11096

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Wintenberger, Jean-Pierre Un scindage de la filtration de Hodge pour certaines variétés algébriques sur les corps locaux. [A splitting of the Hodge filtration for certain algebraic varieties over local fields] 86k:14015

- 11S37 Langlands-Weil conjectures, nonabelian class field theory
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Koch, Helmut Bemerkungen zur numerischen lokalen Langlands-Vermutung. [Remarks on the numerical local Langlands conjecture] **86i:11069**
(with Zink, Ernst-Wilhelm) Bemerkungen zur numerischen lokalen Langlands-Vermutung. II. [Remarks on the numerical local Langlands conjecture. II] **86i:11070**
Zink, Ernst-Wilhelm See Koch, Helmut, **86i:11070**

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Deligne, P. Les corps locaux de caractéristique p , limites de corps locaux de caractéristique 0. [Local fields of characteristic p which are limits of local fields of characteristic 0] **86g:11068**
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Moy, Allen The irreducible orthogonal and symplectic Galois representations of a p -adic field (the tame case). **86b:11080**
Shahidi, F. Fourier transforms of intertwining operators and Plancherel measures for $GL(n)$. **86b:22031**
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- 11S40 Zeta functions and L -functions [See also 11M41, 19F27.]

Hida, Haruzo A p -adic measure attached to the zeta functions associated with two elliptic modular forms. I. **86m:11097**

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Igusa, Jun-ichi Some results on p -adic complex powers. **86f:11046**
Moreno, Carlos J. Analytic proof of the strong multiplicity one theorem. **86m:22027**
Vishik, M. M. Non-Archimedean spectral theory. (Russian) **86f:11094**
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- 11S45 Algebras and orders, and their zeta functions [See also 11R52, 11R54, 16A18, 16A39.]

Benz, H. (with Zassenhaus, H.) Über verschränkte Produktordnungen. (English summary) [On crossed product orders] **86k:11072**
Bushnell, Colin J. (with Fröhlich, Albrecht) Nonabelian congruence Gauss sums and p -adic simple algebras. **86g:11071**
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Koch, Helmut (with Zink, Ernst-Wilhelm) Bemerkungen zur numerischen lokalen Langlands-Vermutung. II. [Remarks on the numerical local Langlands conjecture. II] **86i:11070**
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- 11S70 K -theory of local fields

Kahn, Bruno L'anneau de Milnor d'un corps local à corps résiduel parfait. (English summary) [The Milnor ring of a local field with perfect residue field] **86f:11093**
Sivitskii, I. Ya. Torsion in Milnor K -groups for a local field. (Russian) **86b:11108**
Wagoner, J. B. A p -adic regulator problem in algebraic K -theory and group cohomology. **86b:11081**

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Kolster, Manfred K_2 of noncommutative local rings. **86k:16021**
Suslin, A. A. On the K -theory of local fields. **86d:18010**

- 11S75 Valuation theory

Prestel, A. (with Roquette, Peter) \star Lectures on formally p -adic fields. **86j:11123**
Roquette, Peter See Prestel, A., **86j:11123**

secondary classifications (11S75)

Warner, Seth Half Henselian valuations. **86e:12012**
Weisfeiler, Boris Strong approximation for Zariski-dense subgroups of semisimple algebraic groups. **86m:20053**

- 11S80 Other analytic theory (analogues of beta and gamma functions, p -adic integration, etc.)

Koblitz, Neal p -adic eigen-functions for Kubert distributions. **86g:11072**
Langlands, R. P. (with Shelstad, D.) On principal values on p -adic manifolds. **86b:11082**
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Van der Poorten, A. J. p -adic methods in the study of Taylor coefficients of rational functions. **86g:11073**
Vishik, M. M. Non-Archimedean spectral theory. (Russian) **86f:11094**

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Adolphson, Alan Uniqueness of Γ_p : the locally analytic case. (French summary) **86d:11047**
Baldassarri, Francesco Cohomologie p -adique pour la fonction ${}_3F_2\left(\begin{smallmatrix} a, b_1, b_2 \\ c_1, c_2 \end{smallmatrix}; \lambda\right)$. [p -adic cohomology for the function ${}_3F_2\left(\begin{smallmatrix} a, b_1, b_2 \\ c_1, c_2 \end{smallmatrix}; \lambda\right)$] **86i:12011**
Christol, Gilles Un théorème de transfert pour les disques singuliers réguliers. (English summary) [A transfer theorem for regular singular disks] **86h:12012**
Igusa, Jun-ichi Some results on p -adic complex powers. **86f:11046**
Koblitz, Neal \star p -adic numbers, p -adic analysis, and zeta-functions. **86e:11086**
Robba, Philippe Indice d'un opérateur différentiel linéaire p -adique d'ordre 1 et cohomologie p -adique. [Index of a p -adic linear differential operator of order 1 and p -adic cohomology] **86e:12010a**
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- 11S85 Other nonanalytic theory

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Mihaleš, Štelian Standard completion of \mathbb{Z} . **86e:11079**

- 11S99 None of the above, but in this section

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- 11Txx Finite fields and commutative rings (number-theoretic aspects)

(Cohn, P. M.) See Lidl, Rudolf, **86c:11106**
Lidl, Rudolf (with Niederreiter, Harald) \star Finite fields. **86c:11106**
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- 11T06 Polynomials: irreducibility, factorization, distribution of values

Agou, S. Sur l'irréductibilité des trinômes $X^{p^r+1} - aX - b$ sur les corps finis \mathbb{F}_{p^r} . [Irreducibility of the trinomials $X^{p^r+1} - aX - b$ over the finite fields \mathbb{F}_{p^r}] **86g:11074**
Car, Mireille Ensembles de polynômes irréductibles et théorèmes de densité. [Sets of irreducible polynomials and density theorems] **86e:11117**
Sommes de puissances et d'irréductibles dans $\mathbb{F}_q[X]$. [Sums of powers and irreducibles in $\mathbb{F}_q[X]$] **86g:11075a**
Sommes de carrés de polynômes irréductibles dans $\mathbb{F}_q[X]$. [Sums of squares of irreducible polynomials in $\mathbb{F}_q[X]$] **86g:11075b**
Sommes d'un carré et d'un polynôme irréductible dans $\mathbb{F}_q[X]$. (English summary) [Sums of a square and an irreducible polynomial in $\mathbb{F}_q[X]$] **86j:11124**
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Chasse, Guy \star Applications d'un corps fini dans lui-même. (French) [Mappings of a finite field into itself] **86e:11118**
Cohen, Stephen D. Primitive roots and powers among values of polynomials over finite fields. **86c:11107**
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Kang, Shin Won Remarks on finite fields. II. **86m:11098**
Mullen, Gary L. (with Niederreiter, Harald) The structure of a group of permutation polynomials. **86f:11095**
Nicolas, Jean-Louis A Gaussian law on $\mathbb{F}_Q[X]$. **86j:11126**
Niederreiter, Harald See Mullen, Gary L., **86f:11095**
Smith, Judy L. (with Gallian, Joseph A.) Factoring finite factor rings. **86k:11073**
Varshamov, R. R. A method for constructing irreducible polynomials over finite fields. (Russian. Armenian summary) **86i:11071**

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Chistov, A. L. An algorithm of polynomial complexity for factoring polynomials, and determination of the components of a variety in a subexponential time. (Russian. English summary) **86g:11077b**
Grigor'ev, D. Yu. Factoring polynomials over a finite field and solution of systems of algebraic equations. (Russian. English summary) **86g:11077a**
Harms, Lothar Eine Gegenüberstellung der verschiedenen Algorithmen zur schnellen Fourier-Transformation. [A comparison of different algorithms for the fast Fourier transform] **86i:94015b**
Lidl, Rudolf (with Müller, W. B.) Permutation polynomials in RSA-cryptosystems. **86i:94040**
Mullen, Gary L. (with Stevens, Harlan R.) Polynomial functions (mod m). **86a:11004**
Müller, W. B. See Lidl, Rudolf, **86i:94040**
Stevens, Harlan R. See Mullen, Gary L., **86a:11004**

11T15 Difference sets; finite geometries

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Walker, Michael See Piper, Fred, 86d:11099

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Richman, David R. On balanced sets mod p . 86k:05009

11T21 Cyclotomy, exponential sums; Gaussian and character sums

Gerth, Frank, III Finite Fourier transform for functions with restricted support. 86e:11110
Hesse, Werner (with Zehender, Eberhard) Quadratsummen in $GF(p)$. [Sums of squares in $GF(p)$] 86b:11083
Spackman, Kenneth W. Linearly recurring solution sequences for equations over finite fields. 86a:11047
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secondary classifications (11T21)

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Rowlinson, Peter Certain 3-decompositions of complete graphs, with an application to finite fields. 86j:05008
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Tietäväinen, Almo Character sum applications of coding theory. 86a:11033

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Abbas, Yousef (with Liang, Joseph J.) On extended fundamental classes over a finite field. 86m:11099
Cohen, Stephen D. Consecutive primitive roots in a finite field. 86c:11120
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11T41 Equations

Richman, David R. Some remarks on the number of solutions to the equation $f(X_1) + \dots + f(X_n) = 0$. 86d:11100

11T71 Algebraic coding theory; cryptography

Berkovits, Shimon (with Sachs, Joel E.) Analysis of the Herlestam and Johannesson discrete logarithm scheme in $GF(2^n)$ for large n . 86f:11096
Blake, I. F. (with Fuji-Hara, R.; Mullin, R. C.; Vanstone, S. A.) Computing logarithms in finite fields of characteristic two. 86h:11109
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Brickell, Ernest F. Solving low density knapsacks. 86i:94037
(with Lagarias, J. C.; Odlyzko, A. M.) Evaluation of the Adleman attack on multiply iterated knapsack cryptosystems (abstract). (See 86f:94001)
Cheng, Unjeng On the continued fraction and Berlekamp's algorithm. 86b:94021
Cohen, Gérard Denis (with Karpovskiy, M.; Mattson, H. F., Jr.; Schatz, James R.) Covering radius—survey and recent results. 86j:94041
Downie, Diane E. (with Sloane, N. J. A.) The covering radius of cyclic codes of length up to 31. 86f:94036
ElGamal, Taher A public key cryptosystem and a signature scheme based on discrete logarithms. 86j:94045
Even, Shimon (with Goldreich, Oded) On the power of cascade ciphers (extended abstract). (See 86f:94001)
Georgiadis, Jean Further results on cyclic MDS-codes. (German summary) 86i:94060
Goldreich, Oded See Even, Shimon, (86f:94001)
Goldwasser, Shafi (with Micali, Silvio) Probabilistic encryption. 86j:94047
Goppa, V. D. Codes and information. (Russian) 86a:94011
Helleth, Tor On the covering radius of cyclic linear codes and arithmetic codes. 86m:94038
Karpovskiy, M. See Cohen, Gérard Denis et al., 86j:94041
Katsman, G. L. (with Tasman, M. A.; Vlăduț, Serge G.) Modular curves and codes with a polynomial construction. 86a:94012
Lagarias, J. C. Knapsack public key cryptosystems and Diophantine approximation (extended abstract). 86j:94050
See also Brickell, Ernest F. et al., (86f:94001)
Lidl, Rudolf (with Müller, W. B.) A note on polynomials and functions in algebraic cryptography. 86j:94051
Manin, Yu. I. See Vlăduț, Serge G., 86h:94024
Mattson, H. F., Jr. See Cohen, Gérard Denis et al., 86j:94041
Micali, Silvio See Goldwasser, Shafi, 86j:94047

Müller, W. B. Polynomial functions in modern cryptology. (See 86i:00014)

See also Lidl, Rudolf, 86j:94051

Odlyzko, A. M. See Brickell, Ernest F. et al., (86f:94001)
Odori, R. See Varadharajan, V., 86g:94039
Schatz, James R. See Cohen, Gérard Denis et al., 86j:94041
Sloane, N. J. A. See Downie, Diane E., 86f:94036
Stakhov, A. P. ★ Коды золотой пропорции. (Russian) [Golden ratio codes] 86j:94001
Tappe, Jürgen Remarks on generalized cyclic codes. 86g:94045
Thompson, Thomas M. ★ From error-correcting codes through sphere packings to simple groups. 86j:94002
Tierma, H. J. On subcodes of generalized second order Reed-Muller codes. 86i:94055
Tasman, M. A. See Katsman, G. L. et al., 86a:94012
Varadharajan, V. (with Odori, R.) Extension of RSA cryptosystems to matrix rings. 86g:94039
Vishnevetskiĭ, A. L. (L, g)-codes and binary forms. (Russian) 86g:94046
Vlăduț, Serge G. (with Manin, Yu. I.) Linear codes and modular values. (Russian) 86h:94024
See also Katsman, G. L. et al., 86a:94012
Williams, Hugh Cowie Some public-key crypto-functions as intractable as factorization. 86m:94033
Yagisawa, Masahiro A new method for realizing public-key cryptosystem. 86j:94053

11T99 None of the above, but in this section

Blokhuis, A. On subsets of $GF(q^2)$ with square differences. 86c:11109
Burke, John R. A notion of density and essential components in $GF[p, x]$. 86i:11072
Camion, Paul Un algorithme de construction des idempotents primitifs d'idéaux d'algèbres sur F_q . (English summary) [An algorithm for constructing primitive idempotents of ideals of algebras over F_q] 86j:11127
Pellegrino, Giuseppe Galois fields of odd order that have triples of consecutive square (nonsquare) elements. (Italian. English summary) 86a:11048

secondary classifications (11T99)

Amerbaev, V. M. (with Pak, I. T.) ★ Параллельные вычисления в комплексной плоскости. (Russian) [Parallel computations in the complex plane] 86d:65041
Blake, I. F. (with Fuji-Hara, R.; Mullin, R. C.; Vanstone, S. A.) Computing logarithms in finite fields of characteristic two. 86h:11109
Cossens, John H. (with Finkelstein, Larry A.) Computing the discrete Fourier transform using residue number systems in a ring of algebraic integers. 86k:94005
Digne, François (with Michel, Jean) Décomposition des descentes de Shintani: conjectures. (French) [Decomposition of Shintani descents: conjectures] 86m:20048a
(with Michel, Jean) Décomposition des descentes de Shintani: valeurs propres du Frobenius. (French) [Decomposition of Shintani descents: eigenvalues of the Frobenius] 86m:20048b
ElGamal, Taher A subexponential-time algorithm for computing discrete logarithms over $GF(p^2)$. 86j:11130
Finkelstein, Larry A. See Cossens, John H., 86k:94005
Fuji-Hara, R. See Blake, I. F. et al., 86h:11109
Games, Richard A. Complex approximations using algebraic integers. 86m:11049
Grow, David (with Whicher, William C.) Finite unions of quasi-independent sets. 86d:43007
Heimbeck, Günter Bemerkung zu einem Satz von Glauberman. [Remark on a theorem of Glauberman] 86m:20005
Mendès France, Michel Automates et nombres transcendants. [Automata and transcendental numbers] 86j:11075
Michel, Jean See Digne, François, 86m:20048a and 86m:20048b
Mullin, R. C. See Blake, I. F. et al., 86h:11109
Pak, I. T. See Amerbaev, V. M., 86d:65041
Vanstone, S. A. See Blake, I. F. et al., 86h:11109
Whicher, William C. See Grow, David, 86d:43007

11Uxx Connections with logic

11U05 Decidability [See also 03B25.]

secondary classifications (11U05)

Belyakov, É. B. (with Mart'yanov, V. I.) The universal theory of the integers and the extended twin prime conjecture. (Russian) 86g:03017
Gurevich, R. Decidability of the equational theory of positive numbers with exponentiation. (Russian) 86f:03023
Levits, Hilbert Decidability of some problems pertaining to base 2 exponential Diophantine equations. 86m:03022
Mart'yanov, V. I. See Belyakov, É. B., 86g:03017
Pappas, Peter A Diophantine problem for Laurent polynomial rings. 86d:03041
Richard, Denis All arithmetical sets of powers of primes are first-order definable in terms of the successor function and the coprimeness predicate. (French summary) 86h:03103

11U07 Ultraproducts [See also 03C20.]

secondary classifications (11U07)

Wang, Shi Qiang Some number-theoretic properties of a kind of Goldbach commutative rings. 86f:11023

11U09 Model theory

secondary classifications (11U09)

- Cherlin, G. L. Undecidability of rational function fields in nonzero characteristic. **86f:03068**
- Dahn, Bernd I. (with Göring, Peter) Notes on exponential-logarithmic terms. **86h:03060**
- Giorgetta, Donato (with Shelah, S.) Existentially closed structures in the power of the continuum. **86e:03035**
- Göring, Peter See Dahn, Bernd I., **86h:03060**
- Roquette, Peter Some tendencies in contemporary algebra. **86i:12016**
- Shelah, S. See Giorgetta, Donato, **86e:03035**
- Wang, Shi Qiang Extensions with and without Goldbach property of some cubic rings of integers. **86b:11063**

11U10 Nonstandard arithmetic [See also 03H15.]

secondary classifications (11U10)

- Schmerl, Ulf R. Diophantine equations in a fragment of number theory. **86g:03096**

11U99 None of the above, but in this section

secondary classifications (11U99)

- Slesseger, P. H. A height restricted generation of a set of arithmetic functions of order-type ε_0 . **86j:03043**

11Yxx Computational number theory [See also 11-04.]

11Y05 Factorization

- Adleman, Leonard M. (with Odlyzko, A. M.) Irreducibility testing and factorization of polynomials. **86f:11097**
- Chistov, A. L. An algorithm of polynomial complexity for factoring polynomials, and determination of the components of a variety in a subexponential time. (Russian. English summary) **86g:11077b**
- See also Grigor'ev, D. Yu., **86d:11101**
- Davenport, J. H. Factorization of sparse polynomials. **86i:11073**
- Davis, J. A. (with Holdridge, D. B.) Factorization using the quadratic sieve algorithm. **86j:11128**
- (with Holdridge, D. B.) New results on integer factorizations. **86f:11098**
- Grigor'ev, D. Yu. (with Chistov, A. L.) Fast factorization of polynomials into irreducible ones and the solution of systems of algebraic equations. (Russian) **86d:11101**
- Factoring polynomials over a finite field and solution of systems of algebraic equations. (Russian. English summary) **86g:11077a**
- Holdridge, D. B. See Davis, J. A., **86f:11098** and **86j:11128**
- Hu, Sen (with Wang, Dong Ming) Fast factorization over the field of rational numbers and its algebraic extension fields. (Chinese) (Not in MR)
- Odlyzko, A. M. See Adleman, Leonard M., **86f:11097**
- Pomerance, Carl (with Smith, J. W.; Wagstaff, S. S., Jr.) New ideas for factoring large integers. (See **86f:94001**)
- Smith, J. W. See Pomerance, Carl et al., (**86f:94001**)
- Wagstaff, S. S., Jr. See Pomerance, Carl et al., (**86f:94001**)
- Wang, Dong Ming See Hu, Sen (Not in MR)
- Weinberger, P. J. Finding the number of factors of a polynomial. **86h:11110**
- Williams, Hugh Cowie An overview of factoring. (See **86f:94001**)
- Wunderlich, Marvin C. Factoring numbers on the massively parallel computer. (See **86f:94001**)

secondary classifications (11Y05)

- Cooper, Rodney (with Patterson, Wayne) A generalization of the knapsack algorithm using Galois fields. **86i:94038**
- von zur Gathen, Joachim Computations in rings with valuations. **86b:13013**
- Kaltofen, Erich Polynomial-time reductions from multivariate to bi- and univariate integral polynomial factorization. **86j:12001**
- Landau, Susan (with Miller, Gary Lee) Solvability by radicals is in polynomial time. **86k:12001**
- Factoring polynomials over algebraic number fields. **86d:11102**
- Lenstra, Arjen K. Factoring polynomials over algebraic number fields. **86g:12001b**
- Polynomial factorization by root approximation. **86d:12003**
- Factoring multivariate integral polynomials. **86g:12001a**
- Miller, Gary Lee See Landau, Susan, **86k:12001**
- Patterson, Wayne See Cooper, Rodney, **86i:94038**
- Schönhage, Arnold Factorization of univariate integer polynomials by Diophantine approximation and an improved basis reduction algorithm. **86i:88057**
- Wang, Paul S. Early detection of true factors in univariate polynomial factorization. **86g:12002**

11Y11 Primality

- Cohen, Henri (with Lenstra, H. W., Jr.) Primality testing and Jacobi sums. **86j:11078**
- Lenstra, H. W., Jr. See Cohen, Henri, **86j:11078**
- Nicolas, Jean-Louis Tests de primalité. (English summary) [Primality tests] **86k:11075**
- Yates, Samuel Titanic primes. **86a:11049**

secondary classifications (11Y11)

- Gould, H. W. (with Greig, W. E.) A Lucas triangle primality criterion dual to that of Mann-Shanks. **86h:11007**
- Greig, W. E. See Gould, H. W., **86h:11007**

- Pomerance, Carl (with Smith, J. W.; Wagstaff, S. S., Jr.) New ideas for factoring large integers. (See **86f:94001**)
- Smith, J. W. See Pomerance, Carl et al., (**86f:94001**)
- Wagstaff, S. S., Jr. See Pomerance, Carl et al., (**86f:94001**)
- Wunderlich, Marvin C. Implementing the continued fraction factoring algorithm on parallel machines. **86d:11104**

11Y16 Algorithms; complexity

- Berkovits, Shimon See Sachs, Joel E., **86j:11131**
- Borwein, J. M. (with Borwein, Peter B.) Cubic and higher order algorithms for π . **86f:11099**
- Borwein, Peter B. See Borwein, J. M., **86f:11099**
- ElGamal, Taher A subexponential-time algorithm for computing discrete logarithms over $GF(p^2)$. **86j:11129**
- A subexponential-time algorithm for computing discrete logarithms over $GF(p^2)$. **86j:11130**
- Kaltofen, Erich On the complexity of finding short vectors in integer lattices. **86m:11101**
- Martens, Jean-Bernard Convolution algorithms, based on the CRT (Chinese remainder theorem). (French and German summaries) **86a:11050**
- Montgomery, Peter L. Modular multiplication without trial division. **86e:11121**
- Rolletschek, Heinrich The Euclidean algorithm for Gaussian integers. **86g:11079**
- Sachs, Joel E. (with Berkovits, Shimon) Probabilistic analysis and performance modelling of the "Swedish" algorithm and modifications. **86j:11131**
- Schoof, R. J. Elliptic curves over finite fields and the computation of square roots mod p . **86e:11122**
- Shallit, J. O. (with Shamir, A.) Number-theoretic functions which are equivalent to number of divisors. **86k:11076**
- Shamir, A. See Shallit, J. O., **86k:11076**
- Zhong, Ren Bao Defects and revisions of asymptotically fast algorithm for polynomial GCDs. **86j:11132**

secondary classifications (11Y16)

- Camion, Paul Un algorithme de construction des idempotents primitifs d'idéaux d'algèbres sur F_q . (English summary) [An algorithm for constructing primitive idempotents of ideals of algebras over F_q] **86j:11127**
- Harnas, Lothar Eine Gegenüberstellung der verschiedenen Algorithmen zur schnellen Fourier-Transformation. [A comparison of different algorithms for the fast Fourier transform] **86i:94015b**
- Heilfrich, Bettina An algorithm to construct Minkowski-reduced lattice-bases. **86j:58060**
- Lagarias, J. C. The computational complexity of simultaneous Diophantine approximation problems. **86m:11048**
- Li, Zuo Xin (with Lu, Qing Tang) An algorithm for primitive roots of large primes. (Chinese) (Not in MR)
- Lu, Qing Tang See Li, Zuo Xin (Not in MR)
- Winkler, Frans On the complexity of the Gröbner-bases algorithm over $K[x, y, z]$. **86e:13001**

11Y35 Analytic computations

- (Babenko, G. I.) See Zagier, Don Bernard, **86e:11123**
- Eremin, A. Yu. (with Kaporin, I. E.; Kerimov, M. K.) Calculation of the Riemann zeta function in a complex domain. (Russian) **86m:11102**
- Kaporin, I. E. See Eremin, A. Yu. et al., **86m:11102**
- Kerimov, M. K. See Eremin, A. Yu. et al., **86m:11102**
- Lagarias, J. C. (with Miller, Victor S.; Odlyzko, A. M.) Computing $\pi(x)$: the Meissel-Lehmer method. **86h:11111**
- van de Lune, J. ★ Some observations concerning the zero-curves of the real and imaginary parts of Riemann's zeta function. **86k:11077**
- Miller, Victor S. See Lagarias, J. C. et al., **86h:11111**
- Odlyzko, A. M. See Lagarias, J. C. et al., **86h:11111**
- Zagier, Don Bernard The first 50 million primes. (Russian) **86e:11123**

secondary classifications (11Y35)

- Costa Pereira, N. Estimates for the Chebyshev function $\psi(x) - \theta(x)$. **86k:11005**
- Hudson, Richard H. Averaging effects on irregularities in the distribution of primes in arithmetic progressions. **86h:11074**
- Odlyzko, A. M. (with te Riele, H. J. J.) Disproof of the Mertens conjecture. **86m:11070**
- te Riele, H. J. J. See Odlyzko, A. M., **86m:11070**
- Romani, F. Computations concerning primes and powers of two. **86e:11082**

11Y40 Algebraic number theory computations

- Cohen, Henri Énoncés heuristiques sur les groupes de classes. [Heuristic observations on class groups] (See **86f:11006**)
- Dutarte, Philippe Compatibilité avec le Spiegelungssatz de probabilités conjecturales sur le p -rang du groupe des classes. [Compatibility of the conjectural probabilities on the p -rank of the class group with the Spiegelungssatz] **86m:11103**
- Fincke, U. (with Pohst, Michael) A procedure for determining algebraic integers of given norm. **86k:11078**
- Landau, Susan Factoring polynomials over algebraic number fields. **86d:11102**
- Lenstra, H. W., Jr. On the calculation of regulators and class numbers of quadratic fields. **86g:11080**
- Najid-Zejli, H. Computation in radical extensions. **86e:11124**
- Pohst, Michael Computation of integral solutions of a special type of systems of quadratic equations. **86k:11079**
- On constructive methods in algebraic number theory. (See **86d:11002**)
- See also Fincke, U., **86k:11078**

secondary classifications (11Y40)

- Buchmann, Johannes A criterion for the equivalence of two ideals. **86h:11094**
 Direscenao, Claire (with Duval, Dominique) Computations on curves. **86d:14001**
 Dusek, G. W. (with Williams, Hugh Cowie) Computation of the class number and class group of a complex cubic field. **86m:11078**
 Duval, Dominique See Direscenao, Claire, **86d:14001**
 Ennola, Veikko (with Turunen, Reino) On totally real cubic fields. **86e:11100**
 (with Mäki, Sirpa; Turunen, Reino) On real cyclic sextic fields. **86m:11084**
 (with Turunen, Reino) On cyclic cubic fields. **86m:11085**
 Kaltofen, Erich (with Yui, Noriko) Explicit construction of the Hilbert class fields of imaginary quadratic fields with class numbers 7 and 11. **86h:11088**
 Mäki, Sirpa See Ennola, Veikko et al., **86m:11084**
 Nakamura, Ken Computers and class number calculations using elliptic units. (Japanese) **86h:11096**
 Turunen, Reino See Ennola, Veikko, **86e:11100**; **86m:11084** and **86m:11085**
 Vaughan, Theresa P. On computing the discriminant of an algebraic number field. **86j:11114**
 Williams, Hugh Cowie See Dusek, G. W., **86m:11078**
 Yui, Noriko See Kaltofen, Erich, **86h:11088**

11Y50 Computer solution of Diophantine equations

- Furukawa, Akio (with Sasaki, Tateaki) Multipolynomial remainder sequence and its application to linear Diophantine equations. **86g:11081**
 Glasunov, N. M. A mathematical machine oriented towards the study of Diophantine equations. IV. (Russian) **86g:11082**
 Saito, Sadao A problem of Sin Hitotumatu. (Japanese. English summary) **86e:11125**
 Sasaki, Tateaki See Furukawa, Akio, **86g:11081**
 Zimmer, Horst G. On the problem of Behá Eddin 'Amúli and the computation of height functions. **86g:11083**

secondary classifications (11Y50)

- Mignotte, M. On the automatic resolution of certain Diophantine equations. **86e:11021**

11Y55 Calculation of integer sequences

- Buell, Duncan A. (with Hudson, Richard H.) On runs of consecutive quadratic residues and quadratic nonresidues. **86j:11133**
 Er, M. C. Fast computation of Fibonacci numbers and their sums. **86m:11104**
 Hudson, Richard H. See Buell, Duncan A., **86j:11133**
 Kapoor, S. F. (with Reingold, E. M.) Recurrence relations based on minimization and maximization. **86j:11134**
 Pritchard, Paul A. Some negative results concerning prime number generators. **86h:11112**
 Reingold, E. M. See Kapoor, S. F., **86j:11134**
 Smickus, E. A. On the question of the difference between sequences of primes. (Russian) **86e:11128**
 Wagon, Stan The Collatz problem. **86d:11103**

secondary classifications (11Y55)

- Berkovits, Shimshon See Sachs, Joel E., **86j:11131**
 Eichenauer, J. (with Lehn, J.) Eine Bemerkung zur Periodenlängenbestimmung bei einem verallgemeinerten Fibonacci-Generator. [A comment on the determination of period length in a generalised Fibonacci generator] **86k:11015**
 Lehn, J. See Eichenauer, J., **86k:11015**
 Pritchard, Paul A. Long arithmetic progressions of primes: some old, some new. **86h:11013**
 Reeds, J. A. (with Sloane, N. J. A.) Shift-register synthesis (modulo m). **86i:94068**
 Sachs, Joel E. (with Berkovits, Shimshon) Probabilistic analysis and performance modelling of the "Swedish" algorithm and modifications. **86j:11131**
 Sloane, N. J. A. See Reeds, J. A., **86i:94068**

11Y60 Evaluation of constants

- Demally, J.-P. Sur le calcul numérique de la constante d'Euler. [The numerical computation of the Euler constant] **86m:11105**
 Wagon, Stan Is π normal? **86j:11135**

11Y65 Continued fraction calculations

- Patterson, C. D. (with Williams, Hugh Cowie) Some periodic continued fractions with long periods. **86h:11113**
 Williams, Hugh Cowie See Patterson, C. D., **86h:11113**
 Wunderlich, Marvin C. Implementing the continued fraction factoring algorithm on parallel machines. **86d:11104**

11Y70 Values of arithmetic functions; tables

secondary classifications (11Y70)

- Blake, I. F. (with Fuji-Hara, R.; Mullin, R. C.; Vanstone, S. A.) Computing logarithms in finite fields of characteristic two. **86h:11109**
 Fuji-Hara, R. See Blake, I. F. et al., **86h:11109**
 Mullin, R. C. See Blake, I. F. et al., **86h:11109**
 Vanstone, S. A. See Blake, I. F. et al., **86h:11109**

11Y99 None of the above, but in this section

secondary classifications (11Y99)

- Amerbaev, V. M. (with Pak, I. T.) ★ Параллельные вычисления в комплексной плоскости. (Russian) [Parallel computations in the complex plane] **86d:65041**
 Miola, Alfonso Algebraic approach to p -adic conversion of rational numbers. **86d:11012**
 Pak, I. T. See Amerbaev, V. M., **86d:65041**
 Wu, Wen Jun On the zeros of systems of algebraic equations—an application of Ritt's principle. (Chinese) (Not in MR)

11Z50 Miscellaneous applications of number theory

secondary classifications (11Z50)

- Amerbaev, V. M. (with Pak, I. T.) ★ Параллельные вычисления в комплексной плоскости. (Russian) [Parallel computations in the complex plane] **86d:65041**
 Pak, I. T. See Amerbaev, V. M., **86d:65041**

12-XX FIELD THEORY AND POLYNOMIALS

- Huang, Kai Bin (with Li, Zhi Lin) On the relation between the behavior of the zeroes of a polynomial and their distribution. (Chinese. English summary) (Not in MR)
 Li, Zhi Lin See Huang, Kai Bin (Not in MR)

12-01 Elementary exposition; textbooks

secondary classifications (12-01)

- Grove, Larry C. ★ Algebra. **86j:00002**
 Jacobson, Nathan ★ Basic algebra. I. **86d:00001**
 Neubrand, Michael ★ Didaktik—Zahlen—Algebra. (German) [Didactics—numbers—algebra] **86k:00014**

12-02 Advanced exposition (research surveys, monographs, etc.)

secondary classifications (12-02)

- Macdonald, I. G. ★ Симметрические функции и многочлены Холла. (Russian) [Symmetric functions and Hall polynomials] **86k:05001**
 (Zelevinskii, A. V.) See Macdonald, I. G., **86k:05001**

12-03 Historical (must also be assigned at least one classification number from Section 01)

secondary classifications (12-03)

- Demidov, S. S. On the history of the theory of linear differential equations. **86b:01018**
 Franci, Raffaella Fourteenth-century contributions to the solution of third-order equations. (Italian) **86m:01021**
 Malet, Antoni The genesis of group theory in the works of Galois. (Catalan) **86h:01045**
 Giusti, M. Some effectivity problems in polynomial ideal theory. **86d:12001**
 Kaltofen, Erich Polynomial-time reductions from multivariate to bi- and univariate integral polynomial factorization. **86j:12001**
 Kolesova, G. (with McKay, John) Practical strategies for computing Galois groups. **86d:12002a**
 Landau, Susan (with Miller, Gary Lee) Solvability by radicals is in polynomial time. **86k:12001**
 Lenstra, Arjen K. Factoring polynomials over algebraic number fields. **86g:12001b**
 Polynomial factorization by root approximation. **86d:12003**
 Factoring multivariate integral polynomials. **86g:12001a**
 Lueker, D. A new lifting process for the multivariate polynomial factorization. **86j:12002**
 McKay, John See Kolesova, G., **86d:12002a**
 Miller, Gary Lee See Landau, Susan, **86k:12001**
 Peakin, Barbara R. (with Richman, David R.) A method to compute minimal polynomials. **86k:12002**
 Richman, David R. See Peakin, Barbara R., **86k:12002**
 Solcher, L. H. An algorithm for computing Galois groups. **86d:12002b**
 Wang, Paul S. Early detection of true factors in univariate polynomial factorization. **86g:12002**

12-04 Explicit machine computation and programs (not the theory of computation or programming)

secondary classifications (12-04)

- Adleman, Leonard M. (with Odlyzko, A. M.) Irreducibility testing and factorization of polynomials. **86f:11097**
 Alt, René Computing roots of polynomials on vector processing machines. **86m:65044**
 Bini, Dario (with Pan, V.) Fast parallel polynomial division via reduction to triangular Toeplitz matrix inversion and to polynomial inversion modulo a power. **86m:65167**
 Caviness, B. F. See Cherry, G. W., **86k:12009**
 Cherry, G. W. (with Caviness, B. F.) Integration in finite terms with special functions: a progress report. **86k:12009**
 Chistov, A. L. An algorithm of polynomial complexity for factoring polynomials, and determination of the components of a variety in a subexponential time. (Russian. English summary) **86g:11077b**
 See also Grigor'ev, D. Yu., **86d:11101**

Davenport, J. H. Factorisation of sparse polynomials. 86i:11073

$y' + fy = g$. 86f:12008

Ellis, George H. (with Watson, Layne T.) A parallel algorithm for simple roots of polynomials. 86b:65144

Furukawa, Akio See Sasaki, Tateaki, 86i:68056

Grigor'ev, D. Yu. (with Chistov, A. L.) Fast factorization of polynomials into irreducible ones and the solution of systems of algebraic equations. (Russian) 86d:11101

Factoring polynomials over a finite field and solution of systems of algebraic equations. (Russian. English summary) 86g:11077a

Hu, Sen (with Wang, Dong Ming) Fast factorization over the field of rational numbers and its algebraic extension fields. (Chinese) (Not in MR)

Kaltofen, Erich On the complexity of finding short vectors in integer lattices. 86m:11101

Lasard, D. Primitives des fonctions élémentaires (d'après Risch et Davenport).

[Primitives of elementary functions (following Risch and Davenport)] 86k:12010

Odlyako, A. M. See Adleman, Leonard M., 86f:11097

Pan, V. See Bini, Dario, 86m:65167

Rothstein, Michael On pseudoresultants. 86m:13011

Sasaki, Tateaki (with Furukawa, Akio) Secondary polynomial remainder sequence and an extension of subresultant theory. 86i:68056

Schönhage, Arnold Factorization of univariate integer polynomials by Diophantine approximation and an improved basis reduction algorithm. 86i:68057

Strassen, Volker Algebraische Berechnungskomplexität. [Algebraic computational complexity] 86j:68045

Thull, Klaus Approximation by continued fraction of a polynomial real root. 86m:12001

Vorob'ev, N. N., Jr. Estimates of real roots of a system of algebraic equations. (Russian. English summary) 86i:65026

Wang, Dong Ming See Hu, Sen (Not in MR)

Watson, Layne T. See Ellis, George H., 86b:65144

Winkler, Frans An algorithm for constructing detaching bases in the ring of polynomials over a field. 86j:13006

12-06 Proceedings, conferences, etc.

secondary classifications (12-06)

(Chaum, David) See Advances in cryptology, 86f:94001

Advances in cryptology ★ Advances in cryptology. 86f:94001

Santa Barbara, Calif. ★ Advances in cryptology. 86f:94001

Workshop:

Theory and application of cryptographic techniques ★ Advances in cryptology. 86f:94001

12Dxx Real and complex fields

12D05 Polynomials: factorization

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- Kallman, Robert R. (with Simmons, Forest W.) A theorem on planar continua and an application to automorphisms of the field of complex numbers. **86m:54044**
- Simmons, Forest W. See Kallman, Robert R., **86m:54044**
- Tyshchenko, A. V. Basis of solutions of the homogeneous Hörmander identity. (Russian) **86f:35117**

12Exx General field theory

12E05 Polynomials (irreducibility, etc.)

- Abian, Alexander Solvability of infinite systems of polynomial equations over the field of complex numbers. **86c:12004**
- Brues, Aiden A. (with Jensen, Christian U.; Yui, Noriko) Polynomials with Frobenius groups of prime degree as Galois groups. **86h:12003**
- Gerber, Hans U. Wronski's formula and the resultant of two polynomials. **86d:12006**
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- Ilariionov, M. A. Algebraic equations on L -spaces. (Russian) **86i:12003**
- Jensen, Christian U. See Brues, Aiden A. et al., **86h:12003**
- Nachev, N. The fundamental theorem for the resultant of two polynomials. (Bulgarian. English and Russian summaries) (Not in MR)
- Nart, Enric (with Vila, Núria) A primitivity criterion. **86h:12003**
- Orzech, Grace Several versions of the resultant of two polynomials. **86f:12004**
- Panitopol, Laurențiu (with Ștefănescu, D.) Some criteria for irreducibility of polynomials. **86k:12005**
- Rollero, Aldo Observations on binary forms of degrees three and four. (Italian. English and French summaries) **86i:12004**
- Schmalz, A. Reducibility of polynomials in several variables. II. **86i:12005**
- Snapper, Ernst An ingrained error concerning resultants. **86d:12007**
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- Yui, Noriko See Brues, Aiden A. et al., **86h:12003**

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- Ellis, George H. (with Watson, Layne T.) A parallel algorithm for simple roots of polynomials. **86b:65144**
- Finston, David R. Separable polynomials over finite-dimensional algebras. **86k:17002**
- Giusti, M. Some effectivity problems in polynomial ideal theory. **86d:12001**
- Peakin, Barbara R. (with Richman, David R.) A method to compute minimal polynomials. **86k:12002**
- Pirgov, D. T. (with Tokarev, D. D.) Some theorems for integer polynomials. (Bulgarian. English and Russian summaries) **86c:11081**
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- Maus, E. Zur Arithmetik einiger Serien nichtauflösbarer Gleichungen. 5. Grades. [On the arithmetic of some series of unsolvable equations of 5th degree] **86g:12006**
- Nart, Enric (with Vila, Núria) Equations of the type $x^n + aX + b$ with absolute Galois group S_n . (See **86h:0009b**)
- (with Vila, Núria) Equations of the type $X^n + aX^2 + bX + c$, n an odd square, with absolute Galois group A_n . (See **86h:0009b**)
- Rush, David E. Generating ideals in rings of integer-valued polynomials. **86g:12007**
- Vila, Núria See Nart, Enric, (**86h:0009b**)
- Wadsworth, Adrian R. Discriminants in characteristic two. **86m:12004**

secondary classifications (12E10)

- Heider, Franz-Peter (with Kolvenbach, Paulgerd) The construction of $SL(2,3)$ -polynomials. **86g:11063**
- Kolesova, G. (with McKay, John) Practical strategies for computing Galois groups. **86d:12002a**
- Kolvenbach, Paulgerd See Heider, Franz-Peter, **86g:11063**
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- Soicher, L. H. An algorithm for computing Galois groups. **86d:12002b**
- Vila, Núria Sur la résolution d'un problème de plongement. [Solution of an embedding problem] **86c:11098**
- Wang, Peng Fei See Wang, Wan Lan, **86h:05022**
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12E12 Equations

- Sasaki, Tetsaki Cramer-type formula for the polynomial solutions of coupled linear equations with polynomial coefficients. **86i:12006**
- Shapiro, Daniel B. On the Hurwitz problem over an arbitrary field. **86k:12006**

12E15 Skew fields, division rings [See also 11R52, 11R54, 11S45 16A39.]

- Chipchakov, I. D. On algebraic associative division algebras over fields characterized by means of maximum conditions. **86e:12005**
- Draxl, Peter Ostrowski's theorem for Henselian valued skew fields. **86g:12008**
- Gröger, Detlef Zur Existenz von nichtkommutativen euklidischen Körpern. [On the existence of noncommutative Euclidean fields] **86b:12001**
- Platonov, V. P. (with Yanchevskii, V. I.) Dieudonné's conjecture on the structure of unitary groups over a skew-field and Hermitian K -theory. (Russian) **86h:12004**
- Shpil'ker, G. L. A fourth-order commutative hypercomplex system. (Russian) **86m:12005**
- Tomanov, G. M. About the multiplicative structure of division algebras over number fields. **86j:12004**
- Tschimmel, Angelika Lokal-Global Prinzipien für Anordnungen bewerteter Schiefkörper. [Local-global principles for orderings of valued skew fields] **86f:12005**
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- Gräter, J. Über Bewertungen endlich dimensionaler Divisionsalgebren. [On valuations of finite-dimensional division algebras] **86d:12017**
- Leroy, André Dérivées logarithmiques pour une S -dérivation algébrique. [Logarithmic derivatives for algebraic S -derivations] **86e:16003**
- Petersson, Holger P. (with Racine, Michel L.) A norm theorem for central simple algebras of degree 3. **86a:17009**
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12E99 None of the above, but in this section

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- Fried, M. (with Smith, John Howard) Irreducible discriminant components of coefficient spaces. **86g:14006**
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- Smith, John Howard See Fried, M., **86g:14006**
- Wadsworth, Adrian R. Discriminants in characteristic two. **86m:12004**

12Fxx Field extensions

12F05 Algebraic extensions

- Kijima, Daiji Quadratic extensions of quasi-Pythagorean fields. **86k:12007**

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- Najid-Zejli, H. Computation in radical extensions. **86e:11124**
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- Dempwolff, U. (with Grundhöfer, Theo) Lineare Abbildungen eines Körpers, welche Minimalpolynome erhalten. [Linear mappings of a field that preserve minimal polynomials] **86d:12010**
- van den Dries, Lou (with Ribenboim, P.) The absolute Galois group of a rational function field in characteristic zero is a semidirect product. **86i:12007**
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- Erahov, Yu. L. Galois groups of maximal 2-extensions. (Russian) **86f:12006**
- Giraldo Montes, Luis E. On an example due to Artin. (Spanish) **86d:12011**
- Girstmair, Kurt On the construction of primitive elements in field extensions. **86j:12005**
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- Massy, Richard Solutions explicites de problèmes de plongement. (English summary) [Explicit solutions of embedding problems] **86m:12006**
- de Orozco, Mariá Acosta (with Vélez, William Ylase) The torsion group of a field defined by radicals. **86g:12009**
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- Vila, Núria Realization of central extensions of the alternating group as a Galois group over the rational field. (Catalan) **86h:12005**
- Viswanathan, T. M. See Engler, Antonio J., **86e:12007**
- Waterhouse, William C. When one equation solves them all. **86j:12006**
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- Brue, Aiden A. (with Jensen, Christian U.; Yui, Noriko) Polynomials with Frobenius groups of prime degree as Galois groups. **86h:12002**
- Fein, Burton (with Schacher, Murray) Brauer groups and character groups of function fields. II. **86e:12008**
- Foot, Richard Some remarks on the principal ideal theorem. (See **86j:20003**)
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- Kersten, I. (with Michalíček, J.) Applications of Kummer theory without roots of unity. **86e:13005**
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- Nart, Enric (with Vila, Núria) Equations of the type $x^n + aX + b$ with absolute Galois group S_n . (See **86h:00009b**)
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- Schacher, Murray See Fein, Burton, **86e:12008**
- Tita, J. Symétries. [Symmetries] **86i:20001**
- Vila, Núria Sur la réalisation des extensions centrales du groupe alterné comme groupe de Galois sur \mathbb{Q} . [Realisation of the central extensions of the alternating group as a Galois group over \mathbb{Q}] (See **86h:11003**)
- Polynomials over \mathbb{Q} solving an embedding problem. (French summary) **86h:11100**
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- Yui, Noriko See Brue, Aiden A. et al., **86h:12002**

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- Fein, Burton (with Schacher, Murray) Brauer groups and character groups of function fields. II. **86e:12008**
- Hajja, Mowaffaq A note on a result of Kuniyoshi. **86e:12009**
- Quasilinearity of cyclic monomial automorphisms. **86k:12008**
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- Ohm, Jack On subfields of rational function fields. **86h:12007**
- Qureshi, Muhammad Aif A dimension formula for the tensor product of an infinite family of field extensions. **86h:12008**
- Ribenboim, P. Remarks on existentially closed fields and Diophantine equations. **86h:12009**
- Schacher, Murray See Fein, Burton, **86e:12008**
- Sonn, Jack Nonabelian counterexamples to the Noether problem. **86d:12012**

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- Nishioka, Keiji Algebraic function solutions of a certain class of functional equations. **86g:11042**
- Petersen, Holger P. Generic reducing fields of Jordan pairs. **86i:17010**

12F99 None of the above, but in this section

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- Fried, M. (with Haran, Dan; Jarden, Moshe) Galois stratification over Frobenius fields. **86e:12007**
- Haran, Dan See Fried, M. et al., **86e:12007**
- Jarden, Moshe See Fried, M. et al., **86e:12007**
- Nagahara, Takao On splitting rings of separable skew polynomials. **86f:16039a**
- Some H -separable polynomials of degree 2. **86f:16039b**
- Waterhouse, William C. Similarity of matrices under $SL(n, K)$. **86m:15007**

12Gxx Homological methods

12G05 Galois cohomology [See also 11R34, 11S25, 13A20, 16A16.]

- Fein, Burton (with Schacher, Murray) Cyclic classes in relative Brauer groups. **86g:12010**
- Kahn, Bruno Classes de Stiefel-Whitney de formes quadratiques et de représentations galoisiennes réelles. [Stiefel-Whitney classes of quadratic forms and real Galois representations] **86g:12011**
- Lewis, David W. The Merkurjev-Suslin theorem. **86a:12001**
- Schacher, Murray See Fein, Burton, **86g:12010**

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- Arason, Jón Kr. A proof of Merkurjev's theorem. **86f:11029**
- (with Elman, Richard; Jacob, Bill) The graded Witt ring and Galois cohomology. I. **86g:11020**
- Benise, Steffen On the finiteness obstruction of certain periodic groups. **86m:57024**
- Caenepeel, S. A cohomological interpretation of the graded Brauer group. II. **86m:13004**
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- Elman, Richard See Arason, Jón Kr. et al., **86f:11029**
- Halle, Darrell E. On the corestriction homomorphism and generalized involutions of the second kind. **86i:16018**
- Haran, Dan (with Lubotzky, Alexander) Maximal abelian subgroups of free profinite groups. **86d:20034**
- Hürlimann, W. (with Saltman, D.) On the exponent of norm residue groups. **86d:11095**
- Jacob, Bill See Arason, Jón Kr. et al., **86f:11029**
- Lee, Heisook (with Orzech, Morris) Brauer groups and Galois cohomology for a Krull scheme. **86k:13005**
- Lubotzky, Alexander See Haran, Dan, **86d:20034**
- Narsulaev, U. Kh. Computation of Serre groups for modules of a certain class. (Russian) **86e:11109**
- Orzech, Morris See Lee, Heisook, **86k:13005**
- Saltman, D. See Hürlimann, W., **86d:11095**

12G99 None of the above, but in this section

- Snaith, Victor Stiefel-Whitney classes of a symmetric bilinear form—a formula of Serre. **86j:12008**

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- Fein, Burton (with Schacher, Murray) Brauer groups and character groups of function fields. II. **86e:12008**
- Schacher, Murray See Fein, Burton, **86e:12008**

12Hxx Differential and difference algebra

12H05 Differential algebra [See also 13N05.]

- Buium, Alexandru Class groups of differential function fields. **86j:12009**
- Corps de définition des variétés algébriques et théorie de Galois pour les corps différentiels. (English summary) [Fields of definition of algebraic varieties and Galois theory of differential fields] **86f:12007**
- Caviness, B. F. See Cherry, G. W., **86k:12009**
- Cherry, G. W. (with Caviness, B. F.) Integration in finite terms with special functions: a progress report. **86k:12009**
- Davenport, J. H. Integration—what do we want from the theory? **86j:12010**
- $y' + fy = g$. **86f:12008**
- ★ Интегрирование алгебраических функций. (Russian) [Integration of algebraic functions] **86m:12009**
- Grigorenko, N. V. Transitivity of Galois groups of linear differential equations. (Russian) **86b:12002**
- Johnson, Joseph Prolongations of integral domains. **86i:12008**
- Kaltfen, Erich A note on the Risch differential equation. **86h:12010**
- Kondrat'eva, M. V. (with Mikhailév, A. V.; Pankrat'ev, E. V.) Jacobi's bound for systems of differential polynomials. (Russian) **86j:12011**
- Lasard, D. Primitives des fonctions élémentaires (d'après Risch et Davenport). [Primitives of elementary functions (following Risch and Davenport)] **86k:12010**
- Mikhailév, A. V. See Kondrat'eva, M. V. et al., **86j:12011**
- (Mintz, G. E.) See Davenport, J. H., **86m:12009**
- Pankrat'ev, E. V. See Kondrat'eva, M. V. et al., **86j:12011**
- Ramis, J.-P. Phénomène de Stokes et resommation. (English summary) [The Stokes phenomenon and resummation] **86k:12011**
- Phénomène de Stokes et filtration Gevrey sur le groupe de Picard-Vessiot. (English summary) [The Stokes phenomenon and Gevrey filtration on the Picard-Vessiot group] **86k:12012**
- Rubel, Lee A. (with Singer, Michael F.) A differentially algebraic elimination theorem with application to analog computability in the calculus of variations. **86m:12010**
- Singer, Michael F. See Rubel, Lee A., **86m:12010**
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- Zarsuela Armengou, Santiago About some questions of differential algebra concerning to elementary functions. **86i:12009**

secondary classifications (12H05)

- André, Yves Sur certaines algèbres de Lie associées aux schémas abéliens. (English summary) [On certain Lie algebras associated with abelian schemes] **86e:14019**
- Babbitt, Donald G. (with Varadarajan, V. S.) Formal reduction theory of meromorphic differential equations: a group theoretic view. **86b:34010**
- (with Varadarajan, V. S.) Local moduli for meromorphic differential equations. **86g:32037**
- Bass, Hyman (with Meisters, Gary) Polynomial flows in the plane. **86e:58127**
- Berg, Lothar Commutative differential algebras with an algebraic element. **86d:46032**
- Bruckner, A. M. (with Rosenfeld, Melvin; Rubel, Lee A.) The Darboux property and solutions of algebraic differential equations. **86f:34006**
- Buium, Alexandru Corps différentiels et modules des variétés algébriques. (English summary) [Differential fields and moduli of algebraic varieties] **86k:14023**
- Chudnovsky, D. V. (with Chudnovsky, G. V.) Travaux de J. Drach (1919). **86i:34011**
- Chudnovsky, G. V. See Chudnovsky, D. V., **86i:34011**
- Dryuma, V. S. The integration of an analogue of the Kadomtsev-Petviashvili equation for axisymmetric waves in a fluid. (Russian) **86a:35125**
- Fliess, Michel (with Reutenauer, Christophe) Théorie de Picard-Vessiot des systèmes réguliers (ou bilinéaires). (English summary) [Picard-Vessiot theory for regular (or bilinear) systems] **86e:93029**
- Kupersmidt, Boris Relative symmetries of differential equations. **86m:58153**
- Discrete Lax equations and differential-difference calculus. (French summary) **86m:58070**
- Meisters, Gary See Bass, Hyman, **86e:58127**
- Mokhov, O. I. The Hamiltonian property of an evolutionary flow on the set of stationary points of its integral. (Russian) **86f:58063**
- Rao, Gandikota L. N. Certain distribution algebras by matrix representation. **86h:46068**
- Reutenauer, Christophe See Fliess, Michel, **86e:93029**
- Rosenfeld, Melvin See Bruckner, A. M. et al., **86f:34006**
- Rubel, Lee A. See Bruckner, A. M. et al., **86f:34006**
- Singer, Michael F. Solving homogeneous linear differential equations in terms of second order linear differential equations. **86m:34033**
- Sokolov, V. V. Hamiltonian property of the Krichever-Novikov equation. (Russian) **86f:58173**
- Tretkoff, C. L. (with Tretkoff, M. D.) Combinatorial group theory, Riemann surfaces and differential equations. **86g:30055**
- Tretkoff, M. D. See Tretkoff, C. L., **86g:30055**
- Varadarajan, V. S. See Babbitt, Donald G., **86b:34010** and **86g:32037**

12H10 Difference algebra [See also 39Axx.]

- Balaba, I. N. Calculation of the dimension polynomial of a prime principal difference ideal. (Russian) **86i:12010**
- Duval, Anne Lemmes de Hensel et factorisation formelle pour les opérateurs aux différences. [Hensel lemmas and formal factorization for difference operators] **86h:12011**

secondary classifications (12H10)

- Boehrnitzan, Michael "Orders of infinity" generated by difference equations. **86f:12002a**
Discrete "orders of infinity". **86f:12002b**

12H25 p -adic differential equations [See also 11S80, 14G20, 34Gxx.]

- Baldassarri, Francesco Cohomologie p -adique pour la fonction ${}_3F_2(c_1, b_1, b_2; \lambda)$. [p -adic cohomology for the function ${}_3F_2(c_1, b_1, b_2; \lambda)$] **86i:12011**
- Christol, Gilles Un théorème de transfert pour les disques singuliers réguliers. (English summary) [A transfer theorem for regular singular disks] **86h:12012**
- Dwork, B. On Kummer's twenty-four solutions of the hypergeometric differential equation. **86a:12003**
- Robba, Philippe Indice d'un opérateur différentiel linéaire p -adique d'ordre 1 et cohomologie p -adique. [Index of a p -adic linear differential operator of order 1 and p -adic cohomology] **86e:12010a**
Indice d'un opérateur différentiel linéaire p -adique d'ordre 1 et cohomologies p -adiques. [Index of a first-order p -adic linear differential operator and p -adic cohomologies] **86e:12010b**
Index of p -adic differential operators. III. Application to twisted exponential sums. (French summary) **86e:12011**
Indice d'un opérateur différentiel p -adique. IV. Cas des systèmes. Mesure de l'irrégularité dans un disque. (English summary) [Index of a p -adic differential operator. IV. The case of systems. Measure of irregularity in a disk] **86j:12012**

secondary classifications (12H25)

- Duval, Anne Lemmes de Hensel et factorisation formelle pour les opérateurs aux différences. [Hensel lemmas and formal factorization for difference operators] **86h:12011**
- Ramès, J.-P. Théorèmes d'indices Gevrey pour les équations différentielles ordinaires. (English summary) [Gevrey index theorems for ordinary differential equations] **86c:34021**

12Jxx Topological fields

12J10 Valued fields

- Andradas, Carlos Real places in function fields. **86d:12013**
- Diarra, Bertin Ultraproduits ultramétriques de corps valués. [Ultrametric ultraproducts of valued fields] **86i:12012**
- Heinemann, Bernhard (with Prestel, A.) Fields regularly closed with respect to finitely many valuations and orderings. **86i:12013**
(with Prestel, A.) Fields regularly closed with respect to finitely many valuations and orderings. **86g:12012**
- Kuhlmann, F.-V. (with Prestel, A.) On places of algebraic function fields. **86d:12014**
- Matignon, Michel Genre topologique de corps valués. [Topological genus of valued fields] (See **86b:11003**)
- Mináč, Ján Unit fractions in fields. (Russian summary) **86i:12014**
- Prestel, A. See Kuhlmann, F.-V., **86d:12014**; Heinemann, Bernhard, **86g:12012** and **86i:12013**

secondary classifications (12J10)

- Delon, Françoise Théories complètes de corps. [Complete theories of fields] **86k:12014**
- Păscăld, Peter On fields and terms with arctan function. (See **86m:03003**)
- Prestel, A. (with Roquette, Peter) ★ Lectures on formally p -adic fields. **86j:11123**
★ Lectures on formally real fields. **86h:12013**
- Roquette, Peter See Prestel, A., **86j:11123**
- Weispfenning, Volker Quantifier elimination and decision procedures for valued fields. **86m:03059**

12J15 Ordered fields

- Delsell, Charles N. Piecewise-rational retractions onto closed, convex, semialgebraic sets with interior-synopsis. **86f:12009**
- Gröger, Detlef Artin-Schreier-Theorie der Sperrischen Halbordnungen. [Artin-Schreier theory of Sperrian semiorders] **86i:12015**
- Lam, T. Y. An introduction to real algebra. **86g:12013**
- Mersel, Jonathan Lee Separating hyperplanes for convex sets over ordered fields. **86d:12015**
- Prestel, A. ★ Lectures on formally real fields. **86h:12013**
- Rocio Muñoz, Tomás J. Orders on real algebraic sets and analytic germs. **86d:12016**

secondary classifications (12J15)

- Ailing, Norman L. Conway's field of surreal numbers. **86f:04002**
- Becker, Eberhard Extended Artin-Schreier theory of fields. **86f:12001**
- Becker, Thomas Real closed rings and ordered valuation rings. **86a:03034**
- Boe, Rikert ★ Quadratic forms, orderings and abstract Witt rings. **86h:11033**
- Bröcker, Ludwig Spaces of orderings and semialgebraic sets. **86m:12002**
- Cohn, P. M. On copowers of an ordered skew field. **86j:18019**
- Dahn, Bernd L. (with Wolter, Helmut) Ordered fields with several exponential functions. **86m:03056**
- Delon, Françoise Théories complètes de corps. [Complete theories of fields] **86k:12014**

- Heinemann, Bernhard (with Prestel, A.) Fields regularly closed with respect to finitely many valuations and orderings. **86i:12013**
(with Prestel, A.) Fields regularly closed with respect to finitely many valuations and orderings. **86g:12012**
- Pillay, Anand (with Steinhorn, Charles) Definable sets in ordered structures. **86c:03033**
- Prestel, A. See Heinemann, Bernhard, **86g:12012** and **86i:12013**
- Satarov, Zh. S. Defining relations of the special unitary group over a quadratic extension of an ordered Euclidean field. (Russian) **86f:20034**
- Steinhorn, Charles See Pillay, Anand, **86c:03033**
- Wolter, Helmut Some results about exponential fields (survey). **86m:12012**
See also Dahn, Bernd L., **86m:03056**

12J20 General valuation theory

- Gräter, J. Über Bewertungen endlich dimensionaler Divisionsalgebren. [On valuations of finite-dimensional division algebras] **86d:12017**
- Warner, Seth Half Henselian valuations. **86e:12012**

secondary classifications (12J20)

- Bieri, Robert (with Groves, J. R. J.) The geometry of the set of characters induced by valuations. **86i:14001**
- Cohen, Jo-Ann Topologies on the quotient field of a Dedekind domain. **86g:13015**
- Coste, Michel Sous-ensembles algébriques réels de codimension 1. (English summary) [Real algebraic subsets of codimension 1] **86k:14018**
- Groves, J. R. J. See Bieri, Robert, **86i:14001**

12J25 Non-Archimedean valued fields [See also 26E30, 30G05, 32D25, 46P05.]

- Coleman, Robert F. A formal analogue of Hilbert's Theorem 90. **86k:12013**

secondary classifications (12J25)

- Ailing, Norman L. Conway's field of surreal numbers. **86f:04002**
- Duponcheol, Luc Non-Archimedean (uniformly) continuous measures on homogeneous spaces. **86f:28024**

12J27 Krasner-Tate algebras [See mainly 32E27, also 46P05.]

secondary classifications (12J27)

- Escassut, Alain Correction: "Transcendence order over \mathbb{Q}_p in \mathbb{C}_p " [J. Number Theory **16** (1983), no. 3, 395-402; MR **84j:10047**]. **86i:11054**

12Kxx Generalizations

12K05 Near-fields [See also 16A76.]

- Hartmann, Erich Über zwei Klassen von Tits-Fastkörpern. [On two classes of Tits nearfields] **86c:12006**
- Neumann, Maria (with Stanciu, L.) Über einige Rechenregeln und Äquivalenzrelationen in einem Alternativkörper. (Romanian summary) [On some rules of arithmetic and equivalence relations in an alternative field] **86j:12013**
- Pellegrini Manara, Silvia On the 1-generated s -near-fields. **86m:12011**
- Stanciu, L. See Neumann, Maria, **86j:12013**

secondary classifications (12K05)

- Feigelshtock, Shalom On simple distributively generated near-rings. **86k:16033**
- Maxson, Carlton J. (with Pils, Günter) Near-rings determined by fibered groups. **86f:16041**
- Pellegrini Manara, Silvia On a class of near-rings sum of near-fields. (English, Russian and Czech summaries) **86e:16044**
- Pils, Günter See Maxson, Carlton J., **86f:16041**
- Yakabe, Iwao A characterisation of near-fields by quasi-ideals. **86j:16036**

12Lxx Connections with logic

12L05 Decidability

- Fried, M. (with Haran, Dan; Jarden, Moshe) Galois stratification over Frobenius fields. **86c:12007**
- Haran, Dan See Fried, M. et al., **86c:12007**
- Jarden, Moshe See Fried, M. et al., **86c:12007**

secondary classifications (12L05)

- Cherlin, G. L. Decidable theories of pseudo-algebraically closed fields. **86k:03024**
- Weispfenning, Volker Quantifier elimination and decision procedures for valued fields. **86m:03059**
- Wolter, Helmut On the "problem of the last root" for exponential terms. **86m:03061**

12L12 Model theory

- Delon, Françoise Théories complètes de corps. [Complete theories of fields] **86k:12014**
Corps équivalents à leur corps de séries. [Fields that are equivalent to their power series fields] **86k:12015**
- Laslandes, Bruno Modèle-compagnons de théories de corps munis de n ordres. (English summary) [Model-companions of theories of fields with n orderings] **86g:12014**
- Roquette, Peter Some tendencies in contemporary algebra. **86i:12016**
- Wolter, Helmut Some results about exponential fields (survey). **86m:12012**

secondary classifications (12L12)

- Baazrab, Şerban A. On some classes of Hilbertian fields. **86c:12002**

Axioms for pseudo-real-closed fields. **86i:12002**

Becker, Eberhard (with Jacob, Bill) Rational points on algebraic varieties over a generalized real closed field: a model theoretic approach. **86h:14014**
 Boffa, Maurice (with Michaux, Christian; Point, Françoise; van Praag, Paul) L'élimination linéaire dans les corps. (English summary) [Linear elimination in skew fields] **86k:03019**

Cherlin, G. L. Decidable theories of pseudo-algebraically closed fields. **86k:03024**

Dahn, Bernd I. The limit behaviour of exponential terms. **86f:03058**
 (with Wolter, Helmut) Ordered fields with several exponential functions. **86m:03056**

Heinemann, Bernhard (with Prestel, A.) Fields regularly closed with respect to finitely many valuations and orderings. **86i:12013**

Jacob, Bill See Becker, Eberhard, **86h:14014**

Macintyre, Angus Residue fields of models of P . **86b:03042**

Michaux, Christian See Boffa, Maurice et al., **86k:03019**

Point, Françoise See Boffa, Maurice et al., **86k:03019**

van Praag, Paul See Boffa, Maurice et al., **86k:03019**

Prestel, A. See Heinemann, Bernhard, **86i:12013**

Wolter, Helmut See Dahn, Bernd I., **86m:03056**

13-XX COMMUTATIVE RINGS AND ALGEBRAS {For the noncommutative case, see 16-XX.}

13-01 Elementary exposition; textbooks

Bourbaki, Nicolas ★ *Éléments de mathématique*. (French) [Elements of mathematics] **86j:13001**

Northcott, D. G. ★ *Multilinear algebra*. **86m:13001**

secondary classifications (13-01)

(Ackerman, Michael) See Kuns, Ernst, **86e:14001**

García, Arnaldo See Lequain, Yves, **86j:00004**

Kuns, Ernst ★ Introduction to commutative algebra and algebraic geometry. **86e:14001**

Lang, Serge ★ *Algebra*. **86j:00003**

Lequain, Yves (with García, Arnaldo) ★ *Álgebra: uma introdução*. (Portuguese) [An introduction to algebra] **86j:00004**

(Mumford, David) See Kuns, Ernst, **86e:14001**

13-02 Advanced exposition (research surveys, monographs, etc.)

Bourbaki, Nicolas ★ *Éléments de mathématique*. (French) [Elements of mathematics] **86k:13001a**

★ *Éléments de mathématique*. (French) [Elements of mathematics] **86k:13001b**

Gopalakrishnan, N. S. ★ *Commutative algebra*. **86k:13002**

Lorenzini, Anna Graded rings. **86d:13001**

Van Oystaeyen, F. (with Verschoren, A.) ★ *Relative invariants of rings*. **86b:13001**

Verschoren, A. See Van Oystaeyen, F., **86b:13001**

secondary classifications (13-02)

Bucur, Ionel ★ *Selected topics in algebra*. **86f:14001**

Fuchs, László (with Salce, Luigi) ★ *Modules over valuation domains*. **86h:13008**

McDonald, Bernard R. ★ *Linear algebra over commutative rings*. **86d:13008**

(Morozanu, Mihnea) See Bucur, Ionel, **86f:14001**

Salce, Luigi See Fuchs, László, **86h:13008**

13-03 Historical (must also be assigned at least one classification number from Section 01)

Nagata, Masayoshi 50 years of commutative ring theory. (Japanese) **86i:13001**

13-04 Explicit machine computation and programs (not the theory of computation or programming)

Laszard, D. Gröbner bases, Gaussian elimination and resolution of systems of algebraic equations. **86m:13002**

Winkler, Franz On the complexity of the Gröbner-bases algorithm over $K[x, y, z]$. **86e:13001**

secondary classifications (13-04)

Buchberger, B. A note on the complexity of constructing Gröbner-bases. **86j:68059**

See also Winkler, Franz et al. (Not in MR)

Kandri-Rody, Abdellah (with Kapur, D.) Algorithms for computing Gröbner bases of polynomial ideals over various Euclidean rings. **86h:13005**

Kapur, D. See Kandri-Rody, Abdellah, **86h:13005**

Lichtenberger, F. See Winkler, Franz et al. (Not in MR)

Möller, H. Michael (with Mora, Ferdinando) Upper and lower bounds for the degree of Gröbner bases. **86k:13008**

See also Mora, Ferdinando, **86h:13018**

Mora, Ferdinando (with Möller, H. Michael) The computation of the Hilbert function. **86h:13018**

See also Möller, H. Michael, **86k:13008**

Rolletschek, Heinrich See Winkler, Franz et al. (Not in MR)

Winkler, Franz (with Buchberger, B.; Lichtenberger, F.; Rolletschek, Heinrich) Algorithm 628. An algorithm for constructing canonical bases of polynomial ideals. (Not in MR)

13Axx General commutative ring theory

13A05 Divisibility

secondary classifications (13A05)

Glas, A. M. W. A directed d -group that is not a group of divisibility. **86d:06022**

Malik, Saroj Properties of commutative group rings and semigroup rings. **86a:13014**

13A15 Ideals

Albu, Toma A remark on the spectra of rings with Gabriel dimension. **86e:13002**

Anderson, D. D. (with Anderson, David F.) Some remarks on cancellation ideals. **86k:13003**

Anderson, David F. See Anderson, D. D., **86k:13003**

Balboul, Majid M. See Naoum, Adil G., **86i:13002**

Naoum, Adil G. (with Balboul, Majid M.) On finitely generated multiplication ideals in commutative rings. **86i:13002**

Niefield, S. B. (with Rosenthal, K. L.) A note on the algebraic De Morgan's law. (French summary) **86m:13003**

Nowicki, Andrzej (with Zuchowski, Ryszard) Some remarks on systems of ideals. (Polish summary) **86h:13001**

(with Zuchowski, Ryszard) Spectral spaces and radicals in systems of ideals. (Polish summary) **86h:13002**

Okabe, Akira Some results on pseudovaluation domains. **86b:13002**

Rajagopalan, Revati G -rings with few zero-divisors and their quotient rings. **86a:13001**

Rosenthal, K. L. See Niefield, S. B., **86m:13003**

Zuchowski, Ryszard See Nowicki, Andrzej, **86h:13001** and **86h:13002**

secondary classifications (13A15)

Aubert, Karl Egil Arithmetic on open Riemann surfaces. **86k:14020**

Hasan, M. A. K. See Naoum, Adil G., **86i:13002**

Katz, Daniel A criterion for complete intersections to be self-radical. **86k:13011a**

Correction to: "A criterion for complete intersections to be self-radical".

86k:13011b

Matsuda, Ryūki Generalizations of multiplicative ideal theory to commutative rings with zerodivisors. **86k:13018**

McAdam, Stephen Grade schemes and grade functions. **86f:13004**

Naoum, Adil G. (with Hasan, M. A. K.) On finitely generated projective ideals and Ohm condition. **86f:13003**

Reusch, Bodo Beiträge zur konstruktiven Theorie der Polynomideale. XIX. Zur Berechnung dritter und höherer Syzygienmoduln. (English and Russian summaries) [Contributions to the constructive theory of polynomial ideals. XIX. Computing third and higher modules of syzygies] **86j:13008**

Beiträge zur konstruktiven Theorie der Polynomideale. XX. Abhyankarsche Ideale sechster Ordnung und allgemeine Nullstellen mit Unbestimmten. (English and Russian summaries) [Contributions to the constructive theory of polynomial ideals. XX. Abhyankar ideals of sixth order and general zeros with indeterminates] **86j:13009**

Restuccia, Gaetana Sur le lieu $U_R(A)$ d'un anneau noethérien. (English summary) [On the set $U_R(A)$ of a Noetherian ring] **86j:13016**

Sergio, Irene Rings whose spectra do not have polygons. (Italian. English summary) **86j:13007**

13A17 Prime and primary ideals and their generalizations

Giral Silió, José María Commutative rings integral extensions satisfy the going-between property. (Spanish. English summary) (See **86g:00012a**)

Kanaski, Teruo A note on infinite torsion primes of a commutative ring. **86f:13001**

Nowicki, Andrzej Prime ideal structure in additive conservative systems. **86a:13002**

Okon, J. S. Prime divisors, integral closure and filtrations. **86i:13003**

Picavet, Gabriel Une note sur les G -morphisms. [A note on G -morphisms] **86j:13002**

Ratliff, L. J., Jr. The topology determined by the symbolic powers of primary ideals. **86h:13003**

Asymptotic prime divisors and integral extension rings. **86k:13004**

Sharp, R. Y. (with Vámos, P.) Baire's category theorem and prime avoidance in complete local rings. **86h:13004**

Vámos, P. See Sharp, R. Y., **86h:13004**

secondary classifications (13A17)

Albu, Toma A remark on the spectra of rings with Gabriel dimension. **86e:13002**

Ishibaashi, Yasunori Maximally differential graded prime ideals. **86m:13029**

Okabe, Akira Some results on pseudovaluation domains. **86b:13002**

Rajagopalan, Revati G -rings with few zero-divisors and their quotient rings. **86a:13001**

Roberts, Paul C. A prime ideal in a polynomial ring whose symbolic blow-up is not Noetherian. **86k:13017**

Schenzel, Peter Symbolic powers of prime ideals and their topology. **86e:13011**

13A18 Valuations and their generalizations

Arapović, Miroslav Approximation theorems for Manis valuations. **86d:13002**

secondary classifications (13A18)

Alajbegović, Jusuf On Prüfer valuation pairs. (Serbo-Croatian summary) **86i:13006**

R -Prüfer rings and approximation theorems. **86h:13016**

Alonso, M. E. Semi-integral extensions and proper morphisms. **86f:14011**

Becker, Thomas Real closed rings and ordered valuation rings. **86a:03034**

Bieri, Robert (with Groves, J. R. J.) The geometry of the set of characters induced by valuations. **86e:14001**

Cinquegrani, Maria Grazia The Hensel property of divided domains. (Italian) **86c:13022**

Eraskina, A. P. Balanced projective modules over a complete discrete valuation ring. (Russian) **86k:13013**

- Groves, J. R. J. *See* Bieri, Robert, 86c:14001
 Matsuda, Ryūki *K* semigroup rings and almost Krull semigroup rings. 86m:13013
 Saluja, K. S. *See* Singh, Surjit, 86g:13008
 Singh, Surjit (with Saluja, K. S.) A class of *G*-domains having only a finite number of nonzero prime ideals all of which are maximal. 86g:13008
 Yamashita, Michinori An environment of quasiavaluation domains. 86d:13018

13A20 Brauer groups [See also 12Gxx, 16A16.]

- Caenepeel, S. A cohomological interpretation of the graded Brauer group. II. 86m:13004
 DeMeyer, F. (with Molin, R. A.) The Schur group of a commutative ring. 86c:13001
 Lee, Halseok (with Orzech, Morris) Brauer groups and Galois cohomology for a Krull scheme. 86k:13005
 Molin, R. A. *See* DeMeyer, F., 86c:13001
 Orzech, Morris *See* Lee, Halseok, 86k:13005

secondary classifications (13A20)

- Grusenfelder, Lusius Clifford *k*-algebras and *k*^{*}-groups. 86c:13009
 Le Bruyn, Lieven Splitting by Galois objects. 86c:13013
 Li, Jian Shu The cohomological generalization of the fact that the opposite algebra gives the inverse in the Brauer group. 86a:13007
 Molin, R. A. More on the Schur group of a commutative ring. 86j:16011
 Van Oystaeyen, F. (with Verschoren, A.) ★ Relative invariants of rings. 86b:13001
 Verschoren, A. *See* Van Oystaeyen, F., 86b:13001

13A99 None of the above, but in this section

- Ishimuro, Akira On *p*-idempotents and commutative rings with an idempotent Frobenius map. 86c:13003
 Vekaler, A. I. Example of a ring endomorphism preserving principal annihilators but not preserving annihilators of finite sets. (Russian) 86m:13005

secondary classifications (13A99)

- Dobbs, David E. (with Fontana, Marco) Going-up, direct limits and universality. 86b:13005
 Fontana, Marco *See* Dobbs, David E., 86b:13005
 Naudé, C. (with Naudé, G.) Comments on pole assignability over rings. 86k:93062
 Naudé, G. *See* Naudé, C., 86k:93062
 Wang, Shi Qiang Some number-theoretic properties of a kind of Goldbach commutative rings. 86f:11023
 Wu, Pin San A class of algebras with zero divisors. (Chinese. English summary) 86b:13003

13Bxx Ring extensions and related topics

13B02 Extension theory

- Boose, S. Splitting of ring extensions. 86g:13001
 Gilmer, Robert Hilbert subalgebras generated by monomials. 86c:13002
 (with Heinzer, William) Finitely generated intermediate rings. 86m:13006
 Heinzer, William *See* Gilmer, Robert, 86m:13006
 Wu, Pin San A class of algebras with zero divisors. (Chinese. English summary) 86b:13003

secondary classifications (13B02)

- Ngô Việt Trung On the tensor product of extensions of a field. 86h:12006

13B05 Galois theory

- Dahanellidze, F. Z. Galois extensions of commutative rings by profinite families of groups. (Russian. English summary) 86k:13006
 Faith, Carl Galois subrings of independent automorphism groups of commutative rings are quorite. 86c:13003
 Harbater, David Mock covers and Galois extensions. 86c:13004
 Kersten, I. (with Michalíček, J.) Applications of Kummer theory without roots of unity. 86c:13005
 Michalíček, J. *See* Kersten, I., 86c:13005
 Popescu, Nicolae (with Vraciu, Constantin) Galois theory of permitted extensions of commutative regular rings. 86k:13007
 Sanemasa, Mitsuru Some *p*-Galois extensions of commutative rings. 86c:13006
 Vraciu, Constantin *See* Popescu, Nicolae, 86k:13007

secondary classifications (13B05)

- Dahanellidze, G. Z. Magid's theorem in categories. (Russian. English and Georgian summaries) 86g:18006
 Joyal, André (with Tierney, Myles) An extension of the Galois theory of Grothendieck. 86d:18002
 Maurer, Donald Stickelberger's criterion, Galois algebras, and tame ramification in algebraic number fields. 86d:11067
 Tierney, Myles *See* Joyal, André, 86d:18002
 Zame, William R. Covering spaces and the Galois theory of commutative Banach algebras. 86j:48051

13B10 Automorphisms and derivations

- Dicks, Warren Automorphisms of the polynomial ring in two variables. 86b:13004
 Goodearl, K. R. (with Lenagan, T. H.; Roberts, Paul C.) Height plus differential dimension in commutative Noetherian rings. 86c:13004
 Ishibashi, Yasunori On isomorphic polynomial rings over graded rings. 86d:13003
 An analogue of Nakai's conjecture. 86c:13005
 Lenagan, T. H. *See* Goodearl, K. R. et al., 86c:13004
 Nowicki, Andrzej Stiff derivations of commutative rings. 86d:13004
 Pittaunga, Marilena The automorphism group of a polynomial algebra. 86g:13002
 Restuccia, Gaetana Integrable derivations in unequal characteristic. (Italian summary) 86a:13003
 Rings of analytic type over a field of positive characteristic. (Italian. English summary) 86m:13007
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- Campillo López, Antonio (with Sánchez Giralda, T.) Flatness, projectivity and freeness of finitely generated modules. (Spanish. English summary) (See 86h:00009b)
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- Greco, Silvio See Boratyński, M., **86j:13015**
- Heinzer, William (with Lantz, David) Artinian modules and modules of which all proper submodules are finitely generated. **86h:13014**
- Lantz, David See Heinzer, William, **86h:13014**
- Năstăsescu, Constantin (with Răianu, Șerban) Stability conditions for commutative rings with Krull dimension. **86f:13011**
- Răianu, Șerban See Năstăsescu, Constantin, **86f:13011**

13C13 Other special types

- Costa, Douglas L. Sequences of linear type. **86h:13010**
- Fuchs, László On divisible modules over domains. **86j:13013**
- Göbel, Rüdiger (with Shelah, S.) Modules over arbitrary domains. **86d:13011**
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- O'Neill, John D. On direct products of modules over Dedekind domains. **86k:13014**
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- Crivel, Iuliu Ω -pure submodules. (Romanian. English summary) **86a:16024**
- Wiegand, Roger Direct sum cancellation over Noetherian rings. **86h:13009**

13C15 Dimension theory, depth, related rings (catenary, etc.)

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- Ngô Viêt Trung Maximum number of independent elements and dimension of prime divisors in completions of local rings. **86j:13013**
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- Aoyama, Yôichi (with Goto, Shiro) On the endomorphism ring of the canonical module. **86e:13021**
- Chow, Wei Liang Correction: "On the algebraicity of certain ringed spaces" [Amer. J. Math. 101 (1979), no. 2, 364-379; MR 80d:32030]. **86g:32046**
- Dutta, Sankar P. (with Hochster, M.; McLaughlin, J. E.) Modules of finite projective dimension with negative intersection multiplicities. **86h:13023**
- Florentini, Mario (with Lasu, Alexandru T.) On the homogeneous ideal of a quasicomplete intersection in the projective space. (Italian summary) **86a:14046**
- Gómez Pardo, J. L. The weak dimension of classical rings. (Spanish. English summary) (See **86g:00012a**)
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- Hersog, Jürgen (with Simis, A.; Vasconcelos, W. V.) On the arithmetic and homology of algebras of linear type. **86a:13015**
- (with Vasconcelos, W. V.; Villarreal, R.) Ideals with sliding depth. **86k:13022**
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- Ng, Ho Kuen Local dimensions of rings. **86h:13013**
- Ngô Viêt Trung On the tensor product of extensions of a field. **86h:12006**
- Răianu, Șerban See Năstăsescu, Constantin, **86f:16024**
- Restuccia, Gastana Sur le lieu $U_R(A)$ d'un anneau noethérien. (English summary) [On the set $U_R(A)$ of a Noetherian ring] **86j:13016**
- Sharp, R. Y. (with Vámos, P.) Baire's category theorem and prime avoidance in complete local rings. **86h:13004**
- Simis, A. See Hersog, Jürgen et al., **86a:13015**
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- Villarreal, R. See Hersog, Jürgen et al., **86k:13022**

13C99 None of the above, but in this section

- Irite, Takao On \mathbb{Z} -valued additive functions on module category. **86m:13020**

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- Conte, G. (with Perdon, A.) An algebraic notion of zeros for systems over rings. (See **86f:93009**)
- Naudé, C. (with Naudé, G.) Comments on pole assignability over rings. **86k:93062**
- Naudé, G. See Naudé, C., **86k:93062**

- Ogoma, Tetsuahi Fibre products of Noetherian rings and their applications. **86e:13008**
- Associated primes of fibre product rings and a conjecture of Sharp in lower-dimensional cases. **86e:13009**
- Perdon, A. See Conte, G., (**86f:93009**)
- Prósyński, Andrzej Forms and mappings. I. Generalities. **86e:13016**
- Singh, Balwant Higher derivations, normal flatness, and analytic products. **86m:13008**
- Valabrega, Paolo (with Valla, Giuseppe) Standard bases and generators for the strict transforms. (Italian summary) **86b:14009**
- Valla, Giuseppe See Valabrega, Paolo, **86b:14009**
- Vekaler, A. I. Example of a ring endomorphism preserving principal annihilators but not preserving annihilators of finite sets. (Russian) **86m:13005**

13Dxx Homological methods

13D03 Cohomology of commutative rings and algebras

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- Huneke, C. The Koszul homology of an ideal. **86m:13021**
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- Löfwall, Clas On the centre of graded Lie algebras. **86a:13008**
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- Sharp, R. Y. (with Zakeri, H.) Generalized fractions and the monomial conjecture. **86c:13013**
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- Tambara, Daisuke Ext algebras. **86b:16024**
- Wiseman, A. N. Projective modules over pullback rings. **86e:16035**

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- Fan, Yun Homomorphism modules of modules and their homological dimensions. (Chinese. English summary) **86c:13014**
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- Griffith, Phillip See Evans, E. Graham, **86e:13013**
- Jothilingam, P. Syzygies and Ext. **86e:13014**
- Marinov, Vasil P. Perfection of ideals generated by the Pfaffians of an alternating matrix. II. **86f:13006**
- Osofsky, Barbara L. Projective dimensions of ideals of Prüfer domains. **86f:13007**
- Tanimoto, Hiroshi Some remarks on monomial ideals. **86e:13015**

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13D15 Grothendieck group, K -theory [See also 14F15, 18F25, 18F30, 19Axx.]

- Carral, Michel Modules projectifs sur les anneaux de fonctions. [Projective modules over rings of functions] **86j:13014**
- Chu, Hua The rows of a matrix in $E_2(R[x])$. **86b:13009**
- Hua, Chu On the GE_2 of graded rings. **86a:13010**
- Keune, Frans The K_2 of a 1-fold stable ring. **86h:13012**
- Rao, Ravi A. An elementary transformation of a special unimodular vector to its top coefficient vector. **86a:13011**
- Vorst, Ton A survey on the K -theory of polynomial extensions. **86f:13008**
- Weibel, C. Mennicke-type symbols for relative K_2 . **86c:13015**

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- Dayton, Barry H. K_0 of a union of planes through the origin. **86f:14005**
- Levine, Marc N. A K -theoretic approach to multiplicities. **86j:13020**
- Ramella, Luciana A geometric interpretation of one-dimensional quasimonomial rings. **86d:14008**
- Stein, Michael R. Generating the cokernel of $K_3\mathbb{Z} \rightarrow K_3\mathbb{F}_7$. **86i:18015**
- Weibel, C. Complete intersection points on affine varieties. **86b:14022**

13D25 Complexes [See also 14Mxx.]

- Artale, Maria** On a theorem of Buchsbaum and Eisenbud. (Italian) **86f:13009**
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13D30 Torsion theory [See also 13C12, 16A63, 18E40.]

- Năstăsescu, Constantin** (with Raianu, Șerban) Stability conditions for commutative rings with Krull dimension. **86f:13011**
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- Torrecillas Jover, Blas** ★ Aspectos homológicos de las teorías de torsión. (Spanish) [Homological aspects of torsion theories] **86e:18010**
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- Boratyński, M.** (with Greco, Silvio) Hilbert functions and Betti numbers in a flat family. **86j:13015**
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- Dutta, Sankar P.** Generalized intersection multiplicities of modules. II. **86k:13026**
Ecamilla Castillo, Juan ★ Algèbres symétriques et singularités. (French) [Symmetric algebras and singularities] **86k:13010**
Evans, E. Graham (with Griffith, Phillip) Lifting syzygies and extending algebraic vector bundles. **86j:14009**
Griffith, Phillip See Evans, E. Graham, **86j:14009**
Hersog, Jürgen (with Vasconcelos, W. V.; Villarreal, R.) Ideals with sliding depth. **86k:13022**
Kersten, M. Der Residuenkomplex in der lokalen algebraischen und analytischen Geometrie. [The residue complex in local algebraic and analytic geometry] **86a:14015**
Vasconcelos, W. V. See Hersog, Jürgen et al., **86k:13022**
Villarreal, R. See Hersog, Jürgen et al., **86k:13022**

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13E05 Noetherian rings and modules

- Guralnick, Robert M.** Lifting homomorphisms of modules. **86g:13006**
Kadir, Adil (with Naoum, Adil G.) Locally Artinian and locally Noetherian rings. (Arabic. English summary) **86k:13016**
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Restuccia, Gaetano Sur le lieu $U_R(A)$ d'un anneau noethérien. (English summary) [On the set $U_R(A)$ of a Noetherian ring] **86j:13016**

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- Doretto, Lucia** \mathcal{P} -morphisms and complete tensor products. (Italian. English summary) **86j:13021**
Gilmer, Robert (with Heinzer, William) Finitely generated intermediate rings. **86m:13006**
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Ratliff, L. J., Jr. The topology determined by the symbolic powers of primary ideals. **86h:13003**
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 Survey of constructions in Noetherian rings. **86g:13016**
Tanimoto, Hiroshi Smoothness of Noetherian rings. **86b:13012**

13E10 Artinian rings and modules, finite-dimensional algebras

- Blair, William D.** Commutative rings whose factors have Artinian rings of quotients. **86c:13017**
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Heinzer, William (with Lantz, David) Artinian modules and modules of which all proper submodules are finitely generated. **86h:13014**
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- Boratyński, M.** Gorenstein algebras and symmetric forms. **86h:13020**
Iarrobino, Anthony, Jr. Compressed algebras and components of the punctual Hilbert scheme. **86k:14001**
Kadir, Adil (with Naoum, Adil G.) Locally Artinian and locally Noetherian rings. (Arabic. English summary) **86k:13016**
Naoum, Adil G. See Kadir, Adil, **86k:13016**

13E15 Rings and modules of finite generation or representation

- Popescu, Dorin** On Zariski's uniformization theorem. **86h:13015**
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Verdera, Joan On Wedderburn's principal theorem. (Spanish. English summary) (See **86h:0009b**)

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- Almkvist, Gert** Invariants of $\mathbb{Z}/p\mathbb{Z}$ in characteristic p . **86a:14005**

13E99 None of the above, but in this section

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- El-Agawany, M.** (with Micali, Artibano) Algèbre mésonique d'un module. (English summary) [The meson algebra of a module] **86j:15021a**
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Ribenboim, P. La condition des chaînes ascendantes pour les idéaux radicaux. [The ascending chain condition for radical ideals] **86k:13021**

13Fxx Arithmetic rings [See also 12-XX.]

13F05 Dedekind and Prüfer rings and their generalizations

- Alajbegović, Jusuf** On Prüfer valuation pairs. (Serbo-Croatian summary) **86i:13006**
 R -Prüfer rings and approximation theorems. **86h:13016**
Anderson, David F. (with Arnold, Jimmy T.; Dobbs, David E.) Integrally closed condensed domains are Bezout. **86h:13017**
Arnold, Jimmy T. See Anderson, David F. et al., **86h:13017**
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McQuillan, Donald L. On Prüfer domains of polynomials. **86k:13019**
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- Anderson, D. D.** (with Anderson, David F.) Some remarks on cancellation ideals. **86k:13003**
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Arapović, Miroslav Approximation theorems for Manis valuations. **86d:13002**
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Naoum, Adil G. (with Balboul, Majid M.) On finitely generated multiplication ideals in commutative rings. **86i:13002**
Osofsky, Barbara L. Projective dimensions of ideals of Prüfer domains. **86f:13007**
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13F07 Euclidean rings and generalizations

- Amato, Kazuo A note on Euclidean ring. **86f:13013**
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 Rodoski, K. A. The arithmetic of commutative rings. (Russian) **86b:13011**
 You, Hong Some notes on rings with Euclidean algorithms. (Chinese. English summary) **86g:13009**

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- Anderson, D. D. (with Anderson, David F.) Finite intersections of PID or factorial overrings. **86g:13010**
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13F15 Factorial rings, unique factorization domains

- Anderson, D. D. (with Anderson, David F.) Finite intersections of PID or factorial overrings. **86g:13010**
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 Brown, Martin Lawrence On automorphisms of unique factorization domains. **86m:13022**
 Caruth, A. Unique factorization in normal domains. **86j:13017**
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 Zafrullah, Muhammad A general theory of almost factoriality. **86m:13023**

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- Bingener, Jürgen (with Flenner, Hubert) Variation of the divisor class group. **86j:32020**
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 Rothstein, Michael On pseudoregularities. **86m:13011**

13F20 Polynomial rings [See also 11C08.]

- Anderson, D. D. (with Anderson, David F.; Markanda, Raj K.) The rings $R(X)$ and $R(X)$. **86k:13020**
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- Dicks, Warren Automorphisms of the polynomial ring in two variables. **86b:13004**
 Gilmer, Robert (with Smith, William W.) Integer-valued polynomials and the strong two-generator property. **86b:13010**
 Giusti, M. Some effectivity problems in polynomial ideal theory. **86d:12001**
 Greither, Cornelius ★ Zum Kürzungsproblem kommutativer Algebren. (German) [On the cancellation problem for commutative algebras] **86j:13004**
 Ishihashi, Yasunori On isomorphic polynomial rings over graded rings. **86d:13003**
 Kandri-Rody, Abdellah (with Kapur, D.) Algorithms for computing Gröbner bases of polynomial ideals over various Euclidean rings. **86h:13006**
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 Renschuch, Bodo Beiträge zur konstruktiven Theorie der Polynomideale. XIX. Zur Berechnung dritter und höherer Syzygienmoduln. (English and Russian summaries) [Contributions to the constructive theory of polynomial ideals. XIX. Computing third and higher modules of syzygies] **86j:13008**
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 Tsonin, S. N. Retracts of polynomial rings. (Russian) **86h:13006**

13F25 Formal power series rings

- Kim, Joong-Ho A note on isomorphisms of power series rings. **86e:13020**
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- Cherlin, G. L. Definability in power series rings of nonzero characteristic. **86h:03059**
 Dellgasse, P. Intégration sur un cycle évanescant. [Integration over a vanishing cycle] **86b:14002**
 El Khadiri, Abdelhafed (with Tougeron, Jean-Claude) Familles noethériennes de sous-modules de $k[[z]]^p$ et applications. I. (English summary) [Noetherian families of submodules of $k[[z]]^p$ and applications. I] **86m:58029**
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13F30 Discrete valuation rings

von sur Gathen, Joachim Computations in rings with valuations. **86b:13013**

13F99 None of the above, but in this section

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- Rodoski, K. A. The arithmetic of commutative rings. (Russian) **86b:13011**
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13G05 Integral domains

- Yamashita, Michinori An environment of quasivaluation domains. **86d:13018**
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- Anderson, David F. (with Arnold, Jimmy T.; Dobbs, David E.) Integrally closed condensed domains are Bezout. **86h:13017**
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13Hxx Local rings and semilocal rings

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- Adkins, William A. The pointwise-local-global principle for solutions of generic linear equations. **86c:13018**
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 Katz, Daniel A criterion for complete intersections to be self-radical. **86k:13011a**
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 Seibt, Peter A generalized Jacobian criterion for regularity. **86a:13009**
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13H10 Special types (Macaulay, Gorenstein, etc.)

- Aoyama, Yôichi (with Goto, Shiro) On the endomorphism ring of the canonical module. **86e:13021**
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- Gräbe, Hans-Gert Über den Stanley-Reisner-Ring von Quasimannigfaltigkeiten. [On the Stanley-Reisner ring of quasimanifolds] **86d:13019**
 A dualizing complex for Stanley-Reisner rings. **86e:13023**
- Grothe, U. (with Herrmann, M.; Orbanz, U.) Graded Cohen-Macaulay rings associated to equimultiple ideals. **86c:13019**
- Herrmann, M. See Grothe, U. et al., **86c:13019**
- Hunke, Jürgen (with Vasconcelos, W. V.; Villarreal, R.) Ideals with sliding depth. **86k:13022**
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- Jambor, Paul E. Commutative rings with no super-decomposable modules. **86g:13012a**
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- Kleinschmidt, P. Über Hilbert-Funktionen graduierter Gorenstein-Algebren. [On Hilbert functions of graded Gorenstein algebras] **86c:13020**
- Kustin, Andrew R. (with Miller, Matthew) Tight double linkage of Gorenstein algebras. **86k:13023**
- Lorenzini, Anna Buchsbaum rings. **86g:13013**
- Marot, Jean P-rings and P-homomorphisms. **86a:13016**
- Miller, Matthew See Costa, Douglas L. et al., **86f:13016** and Kustin, Andrew R., **86k:13023**
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- Orbanz, U. See Grothe, U. et al., **86c:13019**
- Serrano García, Fernando A new proof of the Auslander-Buchsbaum formula. (Spanish. English summary) (See **86g:00012a**)
- Sharp, R. Y. (with Zakeri, H.) Generalized fractions, Buchsbaum modules and generalized Cohen-Macaulay modules. **86m:13026**
- Stückrad, Jürgen On the Buchsbaum property of Rees and form modules. **86h:13022**
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- Weibel, C. Reesner's theorem. **86k:13025**
- Zakeri, H. See Sharp, R. Y., **86m:13026**

secondary classifications (13H10)

- Boratyński, M. Poincaré forms, Gorenstein algebras and set theoretic complete intersections. **86i:14014**
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- Catanese, Fabrizio M. E. Commutative algebra methods and equations of regular surfaces. **86c:14027**
- Costa, Douglas L. Sequences of linear type. **86h:13010**
- Davis, Edward D. (with Geramita, A. V.; Orzechia, Ferruccio) Hilbert functions of linked varieties. **86h:14040**
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- Del Centina, Andrea (with Gimigliano, Alessandro) Curves on rational and elliptic normal cones which are set theoretically complete intersection. **86c:14039**
- Dutta, Sankar P. Generalized intersection multiplicities of modules. II. **86k:13026**
- Evans, E. Graham (with Griffith, Phillip) Filtering cohomology and lifting vector bundles. **86d:13014**
- Florentini, Mario (with Lascu, Alexandru T.) On the homogeneous ideal of a quasicomplete intersection in the projective space. (Italian summary) **86a:14046**
- Garsia, A. M. (with Stanton, Dennis) Group actions of Stanley-Reisner rings and invariants of permutation groups. **86f:20003**
- Geramita, A. V. (with Maroscia, P.) The ideal of forms vanishing at a finite set of points in \mathbb{P}^n . **86e:14025**
 (with Weibel, C.) On the Cohen-Macaulay and Buchsbaum property for unions of planes in affine space. **86f:14032**
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- Gimigliano, Alessandro See Del Centina, Andrea, **86c:14039**
- Greuel, G.-M. (with Knörrer, Horst) Einfache Kurvensingularitäten und torsionsfreie Moduln. [Simple curve singularities and torsion-free modules] **86d:14025**
- Griffith, Phillip See Evans, E. Graham, **86d:13014**
- Herzog, Jürgen (with Vasconcelos, W. V.) On the divisor class group of Rees-algebras. **86m:13014**
- Huang, Han Shui Characterization of Gorenstein subrings in $k[X]$. **86e:13018**
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- Kerov, S. V. See Karp, A. P., **86i:57027**
- Knörrer, Horst See Greuel, G.-M., **86d:14025**
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- Levy, Lawrence S. (with Wiegand, Roger) Dedekind-like behavior of rings with 2-generated ideals. **86k:13012**
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 On the Betti numbers of the ideal of s points in \mathbb{P}^n . **86d:13015**
- Lyubeshin, Gennady On the local cohomology modules $H_i^*(R)$ for ideals a generated by monomials in an R -sequence. **86f:14002**
- Maroscia, P. (with Vogel, Wolfgang) On the defining equations of points in general position in \mathbb{P}^n . **86a:14045**
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- Ngô Viêt Trung From associated graded modules to blowing-ups of generalized Cohen-Macaulay modules. **86e:13012**
- Projections of one-dimensional Veronese varieties. **86c:14023**
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- Pop, Horia Commutative rings having only a finite number of ideals. **86a:13013**
- Ratliff, L. J., Jr. Three notes on $R^{(1)}$. **86f:13005**

- Asymptotic sequences and Rees rings. **86d:13012**
- Riley, Adrian M. (with Sharp, R. Y.; Zakeri, H.) Cousin complexes and generalized fractions. **86f:13010**
- Schenkel, Peter Independent elements, unmixedness theorems, and asymptotic prime divisors. **86c:13010**
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13H15 Multiplicity theory and related topics

- Davis, Edward D. (with Geramita, A. V.) The Hilbert function of a special class of 1-dimensional Cohen-Macaulay graded algebras. **86j:13019**
- Dutta, Sankar P. (with Hochster, M.; McLaughlin, J. E.) Modules of finite projective dimension with negative intersection multiplicities. **86h:13023**
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- Geramita, A. V. (with Maroscia, P.; Roberts, Leslie G.) The Hilbert function of a reduced K -algebra. **86g:13014**
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- Gillet, Henri (with Soulé, Christophe) K -théorie et nullité des multiplicités d'intersection. (English summary) [K -theory and vanishing of intersection multiplicities] **86k:13027**
- Hochster, M. See Dutta, Sankar P. et al., **86h:13023**
- Levine, Marc N. A K -theoretic approach to multiplicities. **86j:13020**
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- McLaughlin, J. E. See Dutta, Sankar P. et al., **86h:13023**
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- Orbanz, U. Transversal parameters and tangential flatness. **86m:13026**
- Rees, David Generalizations of reductions and mixed multiplicities. **86e:13023**
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- Stückrad, Jürgen (with Vogel, Wolfgang) An algebraic approach to the intersection theory. **86c:13024**
- Vogel, Wolfgang See Stückrad, Jürgen, **86c:13024**

secondary classifications (13H15)

- Achilles, Rüdiger On the intersection multiplicity of improper components in algebraic geometry. **86g:14002**
- Davis, Edward D. (with Geramita, A. V.; Maroscia, P.) Perfect homogeneous ideals: Dubreil's theorems revisited. (French summary) **86m:13024**
- Geramita, A. V. See Davis, Edward D. et al., **86m:13024**
- Grothe, U. (with Herrmann, M.; Orbanz, U.) Graded Cohen-Macaulay rings associated to equimultiple ideals. **86c:13019**
- Herrmann, M. See Grothe, U. et al., **86c:13019**
- Lorenzini, Anna Buchsbaum rings. **86g:13013**
- Maroscia, P. See Davis, Edward D. et al., **86m:13024**
- Orbanz, U. See Grothe, U. et al., **86c:13019**
- Orlik, Peter (with Solomon, Louis; Terao, Hiroaki) Arrangements of hyperplanes and differential forms. **86m:32015**
- (Patil, D. P.) See Vogel, Wolfgang, **86f:14003**
- Pritchard, F. Leon On the multiplicity of zeros of polynomials over arbitrary finite-dimensional K -algebras. **86i:13004**
- Selder, Erich Eine algebraische Definition lokaler analytischer Schnittmultiplizitäten. (English summary) [An algebraic definition of local analytic intersection multiplicities] **86m:32015**
- Sodhi, Amar Ordinary singularities of curves. **86h:14022**
- Solomon, Louis See Orlik, Peter et al., **86m:32015**
- Terao, Hiroaki See Orlik, Peter et al., **86m:32015**
- Vogel, Wolfgang ★ Lectures on results on Bezout's theorem. **86f:14003**
- Watanabe, Tetsuro On the coefficients of Poincaré series. **86j:14004**

13H99 None of the above, but in this section

- Doretto, Lucia \mathcal{P} -morphisms and complete tensor products. (Italian. English summary) **86j:13021**
- secondary classifications (13H99)
- Ngô Viêt Trung Maximum number of independent elements and dimension of prime divisors in completions of local rings. **86j:13013**
- Ogoma, Tetsuichi Fibre products of Noetherian rings and their applications. **86e:13008**
 Associated primes of fibre product rings and a conjecture of Sharp in lower-dimensional cases. **86e:13009**
- Ragusa, Alfio A homological invariant associated with the ideals of a local ring. (Italian. English summary) **86i:13005**
- Ratinov, V. A. Possible values of certain structural parameters of finite local commutative rings. (Russian) **86b:13014**
- Restuccia, Gaetano Sur le lieu $U_R(A)$ d'un anneau noethérien. (English summary) [On the set $U_R(A)$ of a Noetherian ring] **86j:13016**
- Sharp, R. Y. (with Zakeri, H.) Generalized fractions and the monomial conjecture. **86c:13013**

Zakari, H. See Sharp, R. Y., 86c:13013

13Jxx Topological rings [See also 16A80.]

13J05 Power series rings

Harbater, David Algebraic rings of arithmetic power series. 86i:13007

13J10 Complete rings

Caenepeel, S. Graded complete and graded Henselian rings. 86d:13020

Schiffels, Gerhard (with Stenzel, Michael) Einbettung lokal-beschränkter topologischer Ringe in Quotientenringe. [Imbedding of locally bounded topological rings into quotient rings] 86k:13028

Stenzel, Michael See Schiffels, Gerhard, 86k:13028

secondary classifications (13J10)

Sharp, R. Y. (with Vámos, P.) Baire's category theorem and prime avoidance in complete local rings. 86h:13004

Vámos, P. See Sharp, R. Y., 86h:13004

13J15 Henselian rings

Cinquegrani, Maria Grazia The Hensel property of divided domains. (Italian) 86c:13022

secondary classifications (13J15)

Caenepeel, S. Graded complete and graded Henselian rings. 86d:13020

Matsumura, Hideyuki Solving algebraic equations in commutative rings. 86j:13005

Popescu, Dorin On Zariski's uniformisation theorem. 86k:13015

Strano, Rosario On the étale cohomology of Hensel rings. 86g:14009

13J20 Global topological rings

Abellanas, Pablo Topology of Krull homomorphisms. (Spanish) 86f:13018

secondary classifications (13J20)

Schenkel, Peter Independent elements, unmixedness theorems, and asymptotic prime divisors. 86c:13010

13J25 Ordered rings [See also 06F25, 16A86.]

secondary classifications (13J25)

Lam, T. Y. An introduction to real algebra. 86g:12013

13J99 None of the above, but in this section

Cohen, Jo-Ann Topologies on the quotient field of a Dedekind domain. 86g:13015

Mazan, Michel Dualité dans les modules topologiques. [Duality in topological modules] 86j:13022

secondary classifications (13J99)

Sakaguchi, Michinori Remarks on the separation of the A_n -adic topology and permutations of M -sequences. 86j:13010

Schenkel, Peter Symbolic powers of prime ideals and their topology. 86c:13011

13K05 Witt vectors and related rings

Joyal, André δ -anneaux et vecteurs de Witt. [δ -rings and Witt vectors] 86j:13023
 δ -anneaux et λ -anneaux. [δ -rings and λ -rings] 86j:13024

13L05 Applications of logic to commutative algebra [See also 03Cxx, 03Hxx.]

Saracino, Dan (with Wood, Carol) Nonexistence of a universal countable commutative ring. 86d:13021

Seidenberg, A. Survey of constructions in Noetherian rings. 86g:13016

Wood, Carol See Saracino, Dan, 86d:13021

secondary classifications (13L05)

Adamowicz, Zofia (with Morales-Luna, Guillermo) A recursive model for arithmetic with weak induction. 86d:03058

Baudisch, Andreas (with Rothmaler, Philipp) The stratified order in modules. 86i:03046

Cherlin, G. L. (with Dickmann, Max A.) Real closed rings. II. Model theory. 86j:03033

Definability in power series rings of nonzero characteristic. 86h:03059

Contessa, Maria A note on ultraproducts of complete Boolean algebras. 86h:03051

Coquand, T. Le théorème de représentation d'Arens et Kaplansky. [The representation theorem of Arens and Kaplansky] 86m:54018

Dickmann, Max A. Elimination of quantifiers for ordered valuation rings. (See 86m:03003)

See also Cherlin, G. L., 86j:03033

Español, L. First-order aspects of \ast -rings and a constructive version of the Gauss lemma. (Spanish. English summary) 86b:03041

Morales-Luna, Guillermo See Adamowicz, Zofia, 86d:03058

Niefield, S. B. (with Rosenthal, K. I.) A note on the algebraic De Morgan's law. (French summary) 86m:13003

(with Rosenthal, K. I.) Strong De Morgan's law and the spectrum of a commutative ring. 86f:18009

Rosenthal, K. I. See Niefield, S. B., 86f:18009 and 86m:13003

Rothmaler, Philipp See Baudisch, Andreas, 86i:03046

Toffalori, Carlo On the model-completeness of some theories of pairs of rings. (Italian. English summary) 86d:03031

Differentially closed rings for some classes of differential rings. (Italian. English summary) 86a:13017

13Mxx Finite commutative rings {For number-theoretic aspects, see 11Txx.}

13M05 Structure

Ratinov, V. A. Possible values of certain structural parameters of finite local commutative rings. (Russian) 86b:13014

13M10 Polynomials

secondary classifications (13M10)

Gallian, Joseph A. See Smith, Judy L., 86k:11073

Smith, Judy L. (with Gallian, Joseph A.) Factoring finite factor rings. 86k:11073

13N05 Differential algebra [See also 12H05.]

Ishibashi, Yasunori Maximally differential graded prime ideals. 86m:13029

Mittelbach, S. On the universal differential module of a Krull valuation ring of characteristic 0. 86i:13008

Toffalori, Carlo Differentially closed rings for some classes of differential rings. (Italian. English summary) 86a:13017

secondary classifications (13N05)

Buium, Alexandru Class groups of differential function fields. 86j:12009

Johnson, Joseph Prolongations of integral domains. 86i:12008

Kondrat'eva, M. V. (with Mikhailév, A. V.; Pankrat'ev, E. V.) Jacobi's bound for systems of differential polynomials. (Russian) 86j:12011

Mikhailév, A. V. See Kondrat'eva, M. V. et al., 86j:12011

Pankrat'ev, E. V. See Kondrat'eva, M. V. et al., 86j:12011

Prasman, C. Formal decomposition of n commuting partial linear difference operators. 86d:39003

Singh, Balwant Higher derivations, normal flatness, and analytic products. 86m:13008

14-XX ALGEBRAIC GEOMETRY

14-01 Elementary exposition; textbooks

(Ackerman, Michael) See Kunz, Ernst, 86c:14001

Kunz, Ernst ★ Introduction to commutative algebra and algebraic geometry. 86c:14001

(Mumford, David) See Kunz, Ernst, 86c:14001

Roth, Leonard See Semple, J. G., 86m:14001

Semple, J. G. (with Roth, Leonard) ★ Introduction to algebraic geometry. 86m:14001

secondary classifications (14-01)

Dieudonné, Jean ★ History of algebraic geometry. 86h:01004

(Sally, Judith D.) See Dieudonné, Jean, 86h:01004

14-02 Advanced exposition (research surveys, monographs, etc.)

Bucur, Ionel ★ Selected topics in algebra. 86f:14001

(Moroiaru, Mihnea) See Bucur, Ionel, 86f:14001

secondary classifications (14-02)

Arbarello, E. (with Cornalba, Maurizio; Griffiths, P. A.; Harris, Joseph Daniel)

★ Geometry of algebraic curves. Vol. I. 86h:14019

Cornalba, Maurizio The new face of the theory of algebraic curves. (Italian) 86j:14019

See also Arbarello, E. et al., 86h:14019

Fogarty, John See Mumford, David, 86a:14006

Francia, Paolo Pluricanonical mappings for surfaces of general type. (Italian) 86a:14039

(Gel'fand, S. I.) See Okonek, Christian et al., 86i:14005

Griffiths, P. A. See Arbarello, E. et al., 86h:14019 and Topics in transcendental algebraic geometry, 86b:14004

Harris, Joseph Daniel See Arbarello, E. et al., 86h:14019

Jouanolou, Jean-Pierre ★ Théorèmes de Bertini et applications. (French) [Bertini theorems and applications] 86b:13007

(Lin, V. Ya.) See Okonek, Christian et al., 86i:14005

Lipman, Joseph Dualizing sheaves, differentials and residues on algebraic varieties. (French summary) 86g:14008

Manin, Yu. I. ★ Калибровочные поля и комплексная геометрия. (Russian) [Gauge fields and complex geometry] 86m:32001

See also Okonek, Christian et al., 86i:14005

Mumford, David (with Fogarty, John) ★ Geometric invariant theory. 86a:14006

Namba, Makoto On the geometry of algebraic curves. (Japanese) 86d:14022

Okonek, Christian (with Schneider, Michael; Spindler, Heins) ★ Векторные расслоения на комплексных проективных пространствах. (Russian) [Vector bundles on complex projective spaces] 86i:14005

Schneider, Michael See Okonek, Christian et al., 86i:14005

Spindler, Heins See Okonek, Christian et al., 86i:14005

Princeton, N.J. ★ Topics in transcendental algebraic geometry. 86b:14004

Seminar:

Topics in transcendental algebraic geometry ★ Topics in transcendental algebraic geometry. 86b:14004

Topics in transcendental algebraic geometry ★ Topics in transcendental algebraic geometry. 86b:14004

14-03 Historical (must also be assigned at least one classification number from Section 01)

secondary classifications (14-03)

Cornalba, Maurizio The new face of the theory of algebraic curves. (Italian) 86j:14019

Cox, David A. Gauss and the arithmetic-geometric mean. 86f:01015

Dieudonné, Jean ★ History of algebraic geometry. 86h:01004

Earle, Clifford J. H. E. Rauch, function theorist. 86h:01063

Parshin, A. N. (with Shafarevich, I. R.) Arithmetic of algebraic varieties (in the Mathematics Institute of the Academy of Sciences). (Russian) 86k:11001

(Rauch, Harry E.) See Earle, Clifford J., 86h:01063

(Sally, Judith D.) See Dieudonné, Jean, 86h:01004

Shafarevich, I. R. See Parshin, A. N., 86k:11001

14-04 Explicit machine computation and programs (not the theory of computation or programming)

Dicrescenzo, Claire (with Duval, Dominique) Computations on curves. 86d:14001

Duval, Dominique See Dicrescenzo, Claire, 86d:14001

secondary classifications (14-04)

Chistov, A. L. An algorithm of polynomial complexity for factoring polynomials, and determination of the components of a variety in a subexponential time. (Russian. English summary) 86g:11077b

Gianni, Patrizia (with Traverso, Carlo) Shape determination for real curves and surfaces. (Italian summary) 86c:14018

González-Sprinberg, Gérard (with Ruggiero, Valeria) Petites déformations de droites dans le plan projectif réel. (Italian summary) [Small deformations of lines in the real projective plane] 86a:51048

Grigor'ev, D. Yu. Factoring polynomials over a finite field and solution of systems of algebraic equations. (Russian. English summary) 86g:11077a

Holme, Audun (with Schneider, Michael) A computer aided approach to codimension 2 subvarieties of P_n , $n \geq 6$. 86m:14036

Kuribayashi, Akikazu (with Murase, Nobuyuki) Some applications of the existence theorem and the representability theorem of a Riemann surface. 86m:14021

Murase, Nobuyuki See Kuribayashi, Akikazu, 86m:14021

Naruki, Isao Research on singular points using computers. (Japanese) 86m:14023

Ruggiero, Valeria See González-Sprinberg, Gérard, 86a:51048

Schneider, Michael See Holme, Audun, 86m:14036

Traverso, Carlo See Gianni, Patrizia, 86c:14018

14-06 Proceedings, conferences, etc.

(Casas Alvero, E.) See Algebraic geometry, Sitges (Barcelona) 1983, 86j:14001

(Welters, G. E.) See Algebraic geometry, Sitges (Barcelona) 1983, 86j:14001

(Xambó-Descamps, S.) See Algebraic geometry, Sitges (Barcelona) 1983, 86j:14001

Algebraic geometry, Sitges (Barcelona) 1983 ★ Algebraic geometry, Sitges (Barcelona) 1983. 86j:14001

Conference:

Week of algebraic geometry ★ Algebraic geometry, Sitges (Barcelona) 1983. 86j:14001

Sitges ★ Algebraic geometry, Sitges (Barcelona) 1983. 86j:14001

secondary classifications (14-06)

(Le Potier, Joseph) See Moduli of stable bundles over algebraic curves, 86m:14007

(Verdier, Jean-Louis) See Moduli of stable bundles over algebraic curves, 86m:14007

Conference:

Moduli of stable bundles over algebraic curves ★ Module des fibrés stables sur les courbes algébriques. (French) [Moduli of stable bundles over algebraic curves] 86m:14007

Module des fibrés stables sur les courbes algébriques ★ Module des fibrés stables sur les courbes algébriques. (French) [Moduli of stable bundles over algebraic curves] 86m:14007

Moduli of stable bundles over algebraic curves ★ Module des fibrés stables sur les courbes algébriques. (French) [Moduli of stable bundles over algebraic curves] 86m:14007

Paris ★ Module des fibrés stables sur les courbes algébriques. (French) [Moduli of stable bundles over algebraic curves] 86m:14007

14Axx Foundations

14A05 Relevant commutative algebra [See also 13-XX.]

secondary classifications (14A05)

Albu, Toma A remark on the spectra of rings with Gabriel dimension. 86c:13002

Leahy, John V. (with Vitulli, Marie A.) Seminormal graded rings and weakly normal projective varieties. 86m:13009

Nowicki, Andrzej Prime ideal structure in additive conservative systems. 86a:13002

Vitulli, Marie A. See Leahy, John V., 86m:13009

14A10 Varieties

Rome Santos, Concepción Ultraproducts of nonsingular varieties. (Spanish) 86i:14001

secondary classifications (14A10)

Chistov, A. L. See Grigor'ev, D. Yu., 86d:11101

Grigor'ev, D. Yu. (with Chistov, A. L.) Fast factorization of polynomials into irreducible ones and the solution of systems of algebraic equations. (Russian) 86d:11101

Leahy, John V. (with Vitulli, Marie A.) Seminormal graded rings and weakly normal projective varieties. 86m:13009

Vitulli, Marie A. See Leahy, John V., 86m:13009

14A15 Schemes

Van Oystaeyen, F. (with Verschoren, A.) Extending coherent and quasicohherent sheaves on generically closed spaces. 86j:14002

Verschoren, A. See Van Oystaeyen, F., 86j:14002

secondary classifications (14A15)

Ogoma, Tetsuichi Fibre products of Noetherian rings and their applications. 86c:13008

14A20 Generalizations (algebraic spaces, motifs)

Bieri, Robert (with Groves, J. R. J.) The geometry of the set of characters induced by valuations. 86c:14001

Groves, J. R. J. See Bieri, Robert, 86c:14001

Manin, Yu. I. New dimensions in geometry. (Russian) 86d:14002

Renner, Lex E. Reductive monoids are von Neumann regular. 86h:14001

secondary classifications (14A20)

Hodges, T. J. (with Smith, S. P.) Sheaves of noncommutative algebras and the Beilinson-Bernstein equivalence of categories. 86j:17015

Joyal, André (with Tierney, Myles) An extension of the Galois theory of Grothendieck. 86d:18002

Manin, Yu. I. Remarks on algebraic supermanifolds. (Russian) 86i:58011

Schwartz, Niels Real closed spaces. 86g:14013

Smith, S. P. See Hodges, T. J., 86j:17015

Tierney, Myles See Joyal, André, 86d:18002

14A25 Elementary questions

secondary classifications (14A25)

Fried, M. (with Smith, John Howard) Irreducible discriminant components of coefficient spaces. 86g:14006

Smith, John Howard See Fried, M., 86g:14006

14A99 None of the above, but in this section

secondary classifications (14A99)

Delfs, Hans (with Knebusch, Manfred) An introduction to locally semialgebraic spaces. 86c:12003

Griggs, Jerrold R. The Sperner property. (French summary) 86i:06006

Knebusch, Manfred An invitation to real spectra. 86d:14019

See also Delfs, Hans, 86c:12003

Le Bruyn, Lieven Smooth maximal orders in quaternion algebras. I. 86f:16000

Lee, Heisook (with Orzech, Morris) Brauer groups and Galois cohomology for a Krull scheme. 86k:13005

Orzech, Morris See Lee, Heisook, 86k:13005

Picavet, Gabriel Une note sur les G -morphisms. [A note on G -morphisms] 86j:13002

Ribenboim, P. Can one develop a noncommutative geometry for group theory? 86h:20055

Ruiz, Jesús M. On Pythagorean real irreducible algebroid curves. 86h:14018

Schelter, William F. Smooth affine PI algebras. 86g:16024

14Bxx Local theory [See also 32Bxx.]

14B05 Singularities [See also 14E15, 32B30, 32C40, 58C27.]

Andradas Heras, Carlos On the generalized Thom lemma. (Spanish) 86i:14002

Hiura, Masayuki (with Ohyanagi, Shigeki) Classification of weighted dual graphs of minimally elliptic complete intersection singularities. 86d:14003

Morales, Marcelo Polyèdre de Newton et genre géométrique d'une singularité intersection complète. (English summary) [Newton polyhedron and geometric genus of a complete intersection singularity] 86m:14002

Mori, Shigefumi On 3-dimensional terminal singularities. 86m:14003

Morrison, David R. Canonical quotient singularities in dimension three. 86j:14003

Nakajima, Haruhisa (with Watanabe, Keiichi) The classification of quotient singularities which are complete intersections. 86c:14002

Navarro Asnar, Vicente Topological invariance of multiplicity. (Catalan. English summary) (See 86g:00012a)

Ohyanagi, Shigeki See Hiura, Masayuki, 86d:14003

Tedeschi, Gullio Branches of varieties along subvarieties seen from a topological perspective. (Italian. English summary) 86c:14003

Tsuchihashi, Hiroyasu Higher-dimensional analogues of periodic continued fractions and cusp singularities. 86a:14001

Watanabe, Keiichi See Nakajima, Haruhisa, 86c:14002

Zaare Nahandi, Rahim Seminormality of certain generic projections. 86g:14001

secondary classifications (14B05)

- Abellanas, Manuel Calculations about multiplicities. **86i:32018**
- Andreotta, Marco (with Silva, Alessandro) On weakly rational singularities in complex analytic geometry. **86b:32013**
- Arnol'd, V. I. (with Varchenko, A. N.; Givental', A. B.; Khovanov, A. G.) Singularities of functions, wave fronts, caustics and multidimensional integrals. **86m:58027**
- Bayer, Valmir Semigroup of two irreducible algebroid plane curves. **86d:14024**
- Bulm, Alexandru Killing divisor classes by algebraisation. (French summary) **86m:32017**
- Ciliberto, Ciro On the Euler-Poincaré characteristic of complete intersections in \mathbb{CP}^n with isolated singularities. (Italian summary) **86j:14045**
- Giusti, M. (with Merle, M.) Singularités isolées et sections planes de variétés déterminantielles. II. Sections de variétés déterminantielles par les plans de coordonnées. [Isolated singularities and plane sections of determinantal varieties. II. Sections of determinantal varieties by the coordinate planes] **86e:32013**
- Givental', A. B. See Arnol'd, V. I. et al., **86m:58027**
- Grothe, U. (with Herrmann, M.; Orbanz, U.) Graded Cohen-Macaulay rings associated to equimultiple ideals. **86c:13019**
- Gusev, S. V. The asymptotic spectrum of nonquasihomogeneous polynomials. (Russian) **86a:32018**
- Herrmann, M. See Grothe, U. et al., **86c:13019**
- Higuchi, Teichi See Watanabe, Kimio, **86c:32007**
- Ishibashi, Yasunori An analogue of Nakai's conjecture. **86e:13005**
- Ishii, Shihoko On isolated Gorenstein singularities. **86j:32024**
- Khovanov, A. G. See Arnol'd, V. I. et al., **86m:58027**
- Kraft, Jürgen Singularity of monomial curves in A^3 and Gorenstein monomial curves in A^4 . **86m:14020**
- Looijenga, E. ★ Isolated singular points on complete intersections. **86a:32021** (with Steenbrink, Joseph) Milnor number and Tjurina number of complete intersections. **86h:32015**
- McCruy, Clint Massey products in singularity links. **86a:32028**
- Merle, M. See Giusti, M., **86e:32013**
- Mora, Ferdinando A constructive characterization of standard bases. **86h:13019**
- Morales, Marcelo Polynôme d'Hilbert-Samuel des clôtures intégrales des puissances d'un idéal m -primaire. (English summary) [The Hilbert-Samuel polynomial of the integral closures of the powers of an m -primary ideal] **86m:13027**
- Orbanz, U. See Grothe, U. et al., **86c:13019**
- Rees, David Generalisations of reductions and mixed multiplicities. **86c:13023**
- Rula, Joris M. On Pythagorean real irreducible algebroid curves. **86h:14018**
- Sebastiani, Marcos Sur les microfonctions attachées à une singularité réelle. [On microfunctions associated with a real singularity] **86d:32006**
- Seider, Erich Eine algebraische Definition lokaler analytischer Schnittmultiplizitäten. (English summary) [An algebraic definition of local analytic intersection multiplicities] **86m:32015**
- Silva, Alessandro See Andreotta, Marco, **86b:32013**
- Steenbrink, Joseph (with Stevens, J.) Topological invariance of the weight filtration. **86c:14006**
- See also Looijenga, E., **86h:32015**
- Steinberg, Robert Finite subgroups of SU_2 , Dynkin diagrams and affine Coxeter elements. **86g:20016**
- Stevens, J. See Steenbrink, Joseph, **86c:14006**
- Tomari, Masataka A p_g -formula and elliptic singularities. **86h:14029**
- Talkh, A. K. Generalisation of Bertini's theorem on the index of a primary ideal in the ring O_n . (Russian) **86h:32016**
- Varchenko, A. N. See Arnol'd, V. I. et al., **86m:58027**
- Vienne, Lucas Existence d'une borne inférieure dans l'ensemble des désingularisations d'une variété algébrique. (English summary) [Existence of a greatest lower bound in the set of desingularisations of an algebraic variety] **86c:14004**
- Watanabe, Kimio (with Higuchi, Teichi) On a certain class of purely elliptic singularities in dimensions > 2 . **86c:32007**
- Yamamoto, Makoto Classification of isolated algebraic singularities by their Alexander polynomials. **86f:57006**

14B07 Deformations of singularities [See also 14D15, 32C40, 32G05, 32G11, 32G13.]

- Behnke, Kurt On the module of Zariski differentials and infinitesimal deformations of cusp singularities. **86h:14002**
- Nakamura, Iku Infinitesimal deformations of cusp singularities. **86b:14001**

secondary classifications (14B07)

- Campillo López, Antonio Invariants of local rings and deformations of plane curves (of characteristic $p > 0$). (Spanish. English summary) **86h:14021**
- Escamilla Castillo, Juan ★ Algèbres symétriques et singularités. (French) [Symmetric algebras and singularities] **86h:13010**
- Enaault, Hélène (with Viehweg, Eckart) Two-dimensional quotient singularities deform to quotient singularities. **86h:32032**
- Greuel, G.-M. (with Looijenga, E.) The dimension of smoothing components. **86j:32016**
- Guillén Santos, F. (with Navarro Asnar, Vicente) Deformations of analytic Gorenstein singularities of codimension 3. (Spanish. English summary) (See **86h:00009a**)
- Iarrobino, Anthony, Jr. Compressed algebras and components of the punctual Hilbert scheme. **86k:14001**
- Looijenga, E. The smoothing components of a triangle singularity. II. **86d:14033**
- See also Greuel, G.-M., **86j:32016**
- Mori, Shigefumi On 3-dimensional terminal singularities. **86m:14003**
- Navarro Asnar, Vicente See Guillén Santos, F., (**86h:00009a**)
- Steenbrink, Joseph Semicontinuity of the singularity spectrum. **86h:32033**
- Viehweg, Eckart See Enaault, Hélène, **86h:32032**

14B10 Infinitesimal methods

secondary classifications (14B10)

- Behnke, Kurt On the module of Zariski differentials and infinitesimal deformations of cusp singularities. **86h:14002**
- Damon, James The unfolding and determinacy theorems for subgroups of A and K . **86b:58013**
- Uss, Takeshi On obstructions of infinitesimal lifting. **86b:14008**

14B12 Local deformation theory, Artin approximation, etc.

secondary classifications (14B12)

- Evans, E. Graham (with Griffith, Phillip) Lifting syzygies and extending algebraic vector bundles. **86j:14009**
- Flenner, Hubert Babylonian tower theorems on the punctured spectrum. **86j:14010**
- Griffith, Phillip See Evans, E. Graham, **86j:14009**
- Popeacu, Dorin On Zariski's uniformization theorem. **86h:13015**

14B15 Local cohomology [See also 32C36.]

- Lyubenskii, Gennady On the local cohomology modules $H_i^*(R)$ for ideals a generated by monomials in an R -sequence. **86f:14002**

secondary classifications (14B15)

- Behnke, Kurt On the module of Zariski differentials and infinitesimal deformations of cusp singularities. **86h:14002**
- Steenbrink, Joseph (with Stevens, J.) Topological invariance of the weight filtration. **86c:14005**
- Stevens, J. See Steenbrink, Joseph, **86c:14005**

14B20 Formal neighborhoods

- Deligne, P. Intégration sur un cycle évanescant. [Integration over a vanishing cycle] **86b:14002**
- Watanabe, Tetsuro On the coefficients of Poincaré series. **86j:14004**

14B25 Local structure of maps: étale, flat, etc. [See also 13-XX, 14E40.]

secondary classifications (14B25)

- Doretti, Lucia \mathcal{P} -morphisms and complete tensor products. (Italian. English summary) **86j:13021**
- Marot, Jean P -rings and P -homomorphisms. **86a:13016**
- Oda, Susumu (with Yoshida, Ken-ichi) Obstruction ideals of flatness and étale. **86c:13007**
- Orbanz, U. Transversal parameters and tangential flatness. **86m:13028**
- Ramella, Luciana A geometric interpretation of one-dimensional quasinormal rings. **86d:14008**
- Tedeschi, Giulio Branches of varieties along subvarieties seen from a topological perspective. (Italian. English summary) **86c:14003**
- Valabrega, Paolo (with Valla, Giuseppe) Standard bases and generators for the strict transforms. (Italian summary) **86b:14009**
- Valla, Giuseppe See Valabrega, Paolo, **86b:14009**
- Yoshida, Ken-ichi See Oda, Susumu, **86c:13007**

14B99 None of the above, but in this section

secondary classifications (14B99)

- Kersken, M. Der Residuenkomplex in der lokalen algebraischen und analytischen Geometrie. [The residue complex in local algebraic and analytic geometry] **86a:14015**

14Cxx Cycles and subschemes

14C05 Parametrization (Chow and Hilbert schemes)

- Granger, Michel Géométrie des schémas de Hilbert ponctuels. (English summary) [Geometry of punctual Hilbert schemes] **86d:14004**
- Iarrobino, Anthony, Jr. Compressed algebras and components of the punctual Hilbert scheme. **86k:14001**
- Plene, Ragni (with Schlessinger, Michael) On the Hilbert scheme compactification of the space of twisted cubics. **86m:14004**
- Schlessinger, Michael See Plene, Ragni, **86m:14004**

secondary classifications (14C05)

- Ellia, Philippe (with Fiorentini, Mario) Défaut de postulation et singularités du schéma de Hilbert. (Italian summary) [Defect of postulation and singularities in the Hilbert scheme] **86k:14019**
- Fiorentini, Mario See Ellia, Philippe, **86k:14019**
- Kempf, George R. Weighted partitions and patterns. **86c:14023**
- Plene, Ragni On the problem of enumerating twisted cubics. **86m:14039**
- Roberts, Leslie G. Hilbert polynomials and minimum Hilbert functions. **86f:13017**

14C10 Equivalence relations

- Clemens, Herbert Homological equivalence, modulo algebraic equivalence, is not finitely generated. **86d:14043**

secondary classifications (14C10)

- Ran, Ziv Curvilinear enumerative geometry. **86m:14040**

14C15 Rational equivalence rings

- Beauville, Arnaud Quelques remarques sur la transformation de Fourier dans l'anneau de Chow d'une variété abélienne. [Some remarks on the Fourier transform in the Chow ring of an abelian variety] **86e:14002**
- Beltrametti, Mauro (with Francia, Paolo) A property of the regular morphisms. **86e:14003**
- Francia, Paolo See Beltrametti, Mauro, **86e:14003**
- Murre, Jacob P. Un résultat en théorie des cycles algébriques de codimension deux. (English summary) [A result in the theory of algebraic cycles of codimension two] **86c:14004**

secondary classifications (14C15)

- Gillet, Henri Some new Gysin homomorphisms for the Chow homology of varieties. **86h:14004**
- Kac, Victor G. Torsion in cohomology of compact Lie groups and Chow rings of reductive algebraic groups. **86m:57041**
- Klyachko, A. A. Vector bundles on Demazure models. **86c:14016**

14C17 Intersection theory

- Achilles, Rüdiger On the intersection multiplicity of improper components in algebraic geometry. **86g:14002**
- Chen, Kuo Tsai On the Bezout theorem. **86a:14002**
- (Patil, D. P.) See Vogel, Wolfgang, **86f:14003**
- Vogel, Wolfgang ★ Lectures on results on Bezout's theorem. **86f:14003**

secondary classifications (14C17)

- Dutta, Sankar P. (with Hochster, M.; McLaughlin, J. E.) Modules of finite projective dimension with negative intersection multiplicities. **86h:13023**
- Gillet, Henri (with Soulé, Christophe) Intersection sur les variétés d'Arakelov. (English summary) [Intersection on Arakelov varieties] **86a:14019**
- Intersection theory on algebraic stacks and \mathbb{Q} -varieties. **86b:14006**
- (with Soulé, Christophe) K -théorie et nullité des multiplicités d'intersection. (English summary) [K -theory and vanishing of intersection multiplicities] **86k:13027**
- Gudkov, D. A. (with Shustin, E. I.) On the intersection of the close algebraic curves. **86i:14008**
- Hochster, M. See Dutta, Sankar P. et al., **86h:13023**
- Hriljac, Paul Heights and Arakelov's intersection theory. **86c:14024**
- McLaughlin, J. E. See Dutta, Sankar P. et al., **86h:13023**
- Sakai, Fumio Weil divisors on normal surfaces. **86m:14025**
- Shustin, E. I. See Gudkov, D. A., **86i:14008**
- Soulé, Christophe See Gillet, Henri, **86a:14019** and **86k:13027**
- Stückrad, Jürgen (with Vogel, Wolfgang) An algebraic approach to the intersection theory. **86e:13024**
- Vogel, Wolfgang See Stückrad, Jürgen, **86e:13024**

14C20 Divisors, linear systems

- Chiari, Nadia Deficiency of linear series on the normalization of a space curve. **86d:14006**
- Ciliberto, Ciro (with Ghione, Franco) Algebraic series of divisors on a curve and on a surface. (Italian. English summary) **86b:14003**
- (with Orecchia, Ferruccio) Adjoint ideals to projective curves are locally extended ideals. (Italian summary) **86d:14005**
- Ghione, Franco See Ciliberto, Ciro, **86b:14003**
- Hernández Ruipérez, Daniel Divisorial correspondences between relative schemes. (Spanish. English summary) (See **86g:00012a**)
- Ida, Monica A characterization of the cubic hypersurfaces of \mathbb{P}^{n+1} . (Italian) **86a:14003**
- Marchionna, Ermanno Irregularity and subregularity indices of a divisor of an algebraic variety. (Italian. English summary) **86k:14002**
- Meadows, Catherine Linear systems cut out by quadrics on projections of varieties. **86a:14004**
- Orecchia, Ferruccio See Ciliberto, Ciro, **86d:14005**
- Pate, Thomas H. Hypersurfaces containing flat subspaces. **86d:14007**

secondary classifications (14C20)

- Barth, Wolf Paul (with Hulek, K.) Projective models of Shioda modular surfaces. **86j:14034**
- Bulim, Alexandru Class groups of differential function fields. **86j:12009**
- Catenacci, R. (with Cornalba, Maurizio; Reina, C.) Classical solutions of \mathbb{CP}^n nonlinear σ -models; an algebraic geometrical description. **86d:58027**
- Chiari, Nadia Linear series on space curves. **86g:14019**
- Ciliberto, Ciro (with Lazarsfeld, Robert) On the uniqueness of certain linear series on some classes of curves. **86b:14015**
- Cornalba, Maurizio See Catenacci, R. et al., **86d:58027**
- Degoll, Lando Some theorems on linear systems of quadrics with identically zero Jacobian. (Italian) **86i:14017**
- Del Centina, Andrea g_1^1 's on an unramified double cover of a k -gonal curve and applications. (Italian summary) **86k:14021**
- Harbourne, Brian Complete linear systems on rational surfaces. **86h:14030**
- Hulek, K. See Barth, Wolf Paul, **86j:14034**
- Kempf, George R. Curves of g_1^1 's. **86j:14028**
- Lazarsfeld, Robert See Ciliberto, Ciro, **86b:14015**
- Martens, Gerriet On dimension theorems of the varieties of special divisors on a curve. **86b:14014**
- Mestran, Nicole Points rationnels des hypersurfaces génériques de \mathbb{P}^n . (English summary) [Rational points of generic hypersurfaces of \mathbb{P}^n] **86m:14010**
- Reina, C. See Catenacci, R. et al., **86d:58027**

14C22 Picard groups

- Heinrich, Elkedagmar (with van der Put, Marius) Über die Picardgruppen affinoider Algebren. [On the Picard groups of affinoid algebras] **86g:14003**
- van der Put, Marius See Heinrich, Elkedagmar, **86g:14003**
- Ramella, Luciana A geometric interpretation of one-dimensional quasnormal rings. **86d:14008**

secondary classifications (14C22)

- Bingener, Jürgen (with Flenner, Hubert) Variation of the divisor class group. **86j:32020**
- Flenner, Hubert See Bingener, Jürgen, **86j:32020**
- Terasoma, Tomohide Complete intersections with middle Picard number 1 defined over \mathbb{Q} . **86f:14010**
- Ulbrich, K.-H. Group cohomology for Picard categories. **86h:18003**
- Van Oystaeyen, F. (with Verschoren, A.) ★ Relative invariants of rings. **86b:13001**
- Verschoren, A. On the Picard group of a quasi-affine scheme. **86a:13006**
- See also Van Oystaeyen, F., **86b:13001**
- Weibel, C. Complete intersection points on affine varieties. **86b:14022**

14C25 Zero-cycles

- Kunyavskii, B. É. (with Tamasan, M. A.) Zero-cycles on rational surfaces and Néron-Severi tori. (Russian) **86f:14004**
- Levine, Marc N. (with Srinivas, V.) Zero cycles on certain singular elliptic surfaces. **86d:14009**
- Torsion zero-cycles on singular varieties. **86h:14003**
- (with Weibel, C.) Zero cycles and complete intersections on singular varieties. **86k:14003**
- Srinivas, V. See Levine, Marc N., **86d:14009**
- Tamasan, M. A. See Kunyavskii, B. É., **86f:14004**
- Weibel, C. See Levine, Marc N., **86k:14003**

secondary classifications (14C25)

- Granger, Michel Géométrie des schémas de Hilbert ponctuels. (English summary) [Geometry of punctual Hilbert schemes] **86d:14004**
- Marocia, P. (with Vogel, Wolfgang) On the defining equations of points in general position in \mathbb{P}^n . **86a:14045**
- Pardon, William A relation between Witt groups and zero-cycles in a regular ring. **86f:11031**
- Pedrini, Claudio Vector bundles over singular affine surfaces. (Italian summary) **86b:14007**
- Vogel, Wolfgang See Marocia, P., **86a:14045**

14C30 Transcendental methods, Hodge theory [See also 32J25.]

- Aoki, Noboru On some arithmetic problems related to the Hodge cycles on the Fermat varieties. **86g:14004a**
- Erratum: "On some arithmetic problems related to the Hodge cycles on the Fermat varieties". **86g:14004b**
- Clemens, Herbert Some results about Abel-Jacobi mappings. (See **86b:14004**)
- Griffiths, P. A. Infinitesimal invariant of normal functions. (See **86b:14004**)
- See also Topics in transcendental algebraic geometry, **86b:14004**
- Hasama, Fumio Algebraic cycles on certain abelian varieties and powers of special surfaces. **86k:14004**
- Schoen, Chad Algebraic cycles on certain desingularized nodal hypersurfaces. **86d:14010**
- Steenbrink, Joseph (with Stevens, J.) Topological invariance of the weight filtration. **86c:14005**
- Stevens, J. See Steenbrink, Joseph, **86c:14005**
- Princeton, N.J. ★ Topics in transcendental algebraic geometry. **86b:14004**

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- Topics in transcendental algebraic geometry ★ Topics in transcendental algebraic geometry. **86b:14004**
- Topics in transcendental algebraic geometry ★ Topics in transcendental algebraic geometry. **86b:14004**

secondary classifications (14C30)

- Bardelli, Fabio Polarized mixed Hodge structures: on irrationality of threefolds via degeneration. (Italian summary) **86m:14030**
- Bryant, Robert L. (with Griffiths, P. A.) Some observations on the infinitesimal period relations for regular threefolds with trivial canonical bundle. **86a:32044**
- Carlson, James A. (with Green, Mark; Griffiths, P. A.; Harris, Joseph Daniel) Infinitesimal variations of Hodge structure. I. **86c:32026a**
- Catanese, Fabrizio M. E. Infinitesimal Torelli theorems and counterexamples to Torelli problems. (See **86b:14004**)
- Cattani, Eduardo H. Mixed Hodge structures, compactifications and monodromy weight filtration. (See **86b:14004**)
- (with Kaplan, Aroldo) Sur la cohomologie L_2 et la cohomologie d'intersection à coefficients dans une variation de structure de Hodge. (English summary) [The L_2 -cohomology and the intersection cohomology of a variation of Hodge structures] **86d:32024**
- Clemens, Herbert The Néron model for families of intermediate Jacobians acquiring "algebraic" singularities. **86d:14042**
- Du Bois, Philippe Structure de Hodge mixte sur la cohomologie évanescence. [Mixed Hodge structure on the vanishing cohomology] **86j:32058**
- El Zein, Fouad (with Zucker, Steven M.) Extendability of normal functions associated to algebraic cycles. (See **86b:14004**)
- Green, Mark See Carlson, James A. et al., **86c:32026a**
- Griffiths, P. A. (with Harris, Joseph Daniel) Infinitesimal variations of Hodge structure. II. An infinitesimal invariant of Hodge classes. **86c:32026b**

Infinitesimal variations of Hodge structure. III. Determinantal varieties and the infinitesimal invariant of normal functions. **86e:32036c**

(with Tu, Loring W.) Variation of Hodge structure. (See **86b:14004**)

(with Tu, Loring W.) Curvature properties of the Hodge bundles. (See **86b:14004**)

(with Tu, Loring W.) Infinitesimal variation of Hodge structure. (See **86b:14004**)

(with Tu, Loring W.) Asymptotic behavior of a variation of Hodge structure. (See **86b:14004**)

(with Tu, Loring W.) Infinitesimal variation of Hodge structure and the generic global Torelli theorem. (See **86b:14004**)

See also Bryant, Robert L., **86a:32044** and Carlson, James A. et al., **86e:32026a**
 Harris, Joseph Daniel An introduction to infinitesimal variations of Hodge structures. **86k:32020**

See also Carlson, James A. et al., **86e:32026a** and Griffiths, P. A., **86e:32026b**
 Hoffman, Jerome William The Hodge theory of stable curves. **86f:14013**
 Kaplan, Aroldo See Cattani, Eduardo H., **86d:32024**

Konno, Kazuhiro On deformations and the local Torelli problem of cyclic branched coverings. **86i:32039**

Letizia, Maurizio Intersections of a plane curve with a moving line and a generic global Torelli-type theorem for Kuran surfaces. **86i:14010**

Mathieu, Philippe Systèmes de Gauss-Manin et structure de Hodge mixte sur la cohomologie évanescence. [Gauss-Manin systems and mixed Hodge structure on the vanishing cohomology] **86e:32018**

Miyaoka, Yoichi A remark on variation of the Hodge structure on curves. **86g:14005**

Pham, Frédéric Structures de Hodge mixtes associées à un germe de fonction à point critique isolé. [Mixed Hodge structures associated with a germ of a function with isolated critical point] **86d:32005**

Salto, Morihiko Hodge filtrations on Gauss-Manin systems. II. **86j:32027**
 Hodge filtrations on Gauss-Manin systems. I. **86j:32026**

Steenbrink, Joseph Semicontinuity of the singularity spectrum. **86b:32033**

Tu, Loring W. See Griffiths, P. A., **(86b:14004)** and (Not in MR)

Ust, Sampel Torelli problem for surfaces of general type. **86h:14032**

Variation of mixed Hodge structure arising from family of logarithmic deformations. II. Classifying space. **86h:14005**

Zucker, Steven M. Degeneration of Hodge bundles (after Steenbrink). (See **86b:14004**)
 See also El Zein, Fouad, **(86b:14004)**

14C35 Applications of methods of algebraic K-theory [See also 14F05, 18F25, 19E15.]

Collino, Alberto Torsion in the Chow group of codimension two: the case of varieties with isolated singularities. **86b:14005**

Colliot-Thélène, Jean-Louis (with Raskind, Wayne) K_2 -cohomology and the second Chow group. **86m:14005**

Dayton, Barry H. K_0 of a union of planes through the origin. **86f:14005**

Gillet, Henri Intersection theory on algebraic stacks and Q -varieties. **86b:14006**

Some new Gysin homomorphisms for the Chow homology of varieties. **86h:14004**

Kato, Kazuya (with Saito, Shuji) Unramified class field theory of arithmetical surfaces. **86c:14006**

Levine, Marc N. Bloch's formula for singular surfaces. **86k:14005**

Pedrial, Claudio Vector bundles over singular affine surfaces. (Italian summary) **86b:14007**

Raskind, Wayne See Colliot-Thélène, Jean-Louis, **86m:14005**

Salto, Shuji See Kato, Kazuya, **86c:14006**

secondary classifications (14C35)

Bellinson, A. Higher regulators and values of L -functions. (Russian) **86h:11103**

Bloch, Spencer Height pairings for algebraic cycles. **86h:14015**

Gillet, Henri (with Soulé, Christophe) K -théorie et nullité des multiplicités d'intersection. (English summary) [K -theory and vanishing of intersection multiplicities] **86k:13027**

Levine, Marc N. (with Srinivas, V.) Zero cycles on certain singular elliptic surfaces. **86d:14009**

Torsion zero-cycles on singular varieties. **86h:14003**

(with Weibel, C.) Zero cycles and complete intersections on singular varieties. **86k:14003**

A K -theoretic approach to multiplicities. **86j:13020**

Murre, Jacob P. Un résultat en théorie des cycles algébriques de codimension deux. (English summary) [A result in the theory of algebraic cycles of codimension two] **86c:14004**

Soulé, Christophe Groupes de Chow et K -théorie de variétés sur un corps fini. [Chow groups and K -theory of varieties over a finite field] **86k:14017**

See also Gillet, Henri, **86k:13027**

Srinivas, V. See Levine, Marc N., **86d:14009**

Suslin, A. A. Algebraic K -theory (in the Mathematics Institute of the Academy of Sciences). (Russian) **86g:18009**

Weibel, C. Negative K -theory of varieties with isolated singularities. **86d:14015**
 See also Levine, Marc N., **86k:14003**

14C40 Riemann-Roch theorems [See also 14F12, 19E20, 19L10.]

secondary classifications (14C40)

Green, B. W. On the Riemann-Roch theorem. **86c:11104**

14C99 None of the above, but in this section

Benveniste, X. Sur le cône des 1-cycles effectifs en dimension 3. [On the cone of effective 1-cycles in dimension 3] **86j:14005**

secondary classifications (14C99)

Alekseev, V. N. Linear systems of collineations and null-systems of projective spaces. (Russian) **86h:14006**

Benedetti, Riccardo (with Dedò, Maria) Searching around $H_*^{alg}(-)$. **86c:57035**

Dedò, Maria See Benedetti, Riccardo, **86c:57035**

Jouanolou, Jean-Pierre ★ Théorèmes de Bertini et applications. (French) [Bertini theorems and applications] **86b:13007**

14Dxx Families, fibrations

14D05 Structure of families (Picard-Lefschetz, Picard-Fuchs theory, etc.)

Cattani, Eduardo H. Mixed Hodge structures, compactifications and monodromy weight filtration. (See **86b:14004**)

Griffiths, P. A. (with Tu, Loring W.) Curvature properties of the Hodge bundles. (See **86b:14004**)

(with Tu, Loring W.) Infinitesimal variation of Hodge structure. (See **86b:14004**)

(with Tu, Loring W.) Asymptotic behavior of a variation of Hodge structure. (See **86b:14004**)

(with Tu, Loring W.) Infinitesimal variation of Hodge structure and the generic global Torelli theorem. (See **86b:14004**)

Miyaoka, Yoichi A remark on variation of the Hodge structure on curves. **86g:14005**

Moret-Bailly, Laurent Un théorème de pureté pour les familles de courbes lisses. (English summary) [A purity theorem for families of smooth curves] **86f:14006**

Morrison, David R. The Clemens-Schmid exact sequence and applications. (See **86b:14004**)

Tu, Loring W. See Griffiths, P. A., **(86b:14004)** and (Not in MR)

Ust, Sampel Variation of mixed Hodge structure arising from family of logarithmic deformations. II. Classifying space. **86h:14005**

Zucker, Steven M. Degeneration of Hodge bundles (after Steenbrink). (See **86b:14004**)

secondary classifications (14D05)

Babbitt, Donald G. (with Varadarajan, V. S.) Formal reduction theory of meromorphic differential equations: a group theoretic view. **86b:34010**

Beukers, F. Arithmetical properties of Picard-Fuchs equations. (See **86f:11006**)

Bureau, F. J. Systèmes différentiels à points critiques fixes. II. Points singuliers des intégrales. [Differential systems with fixed points. II. Singular points of integrals] **86c:34016a**

Systèmes différentiels à points critiques fixes. III. Points singuliers des intégrales. [Differential systems with fixed critical points. III. Singular points of integrals] **86c:34016b**

Systèmes différentiels à points critiques fixes. IV. Points singuliers des intégrales. [Differential systems with fixed critical points. IV. Singular points of integrals] **86c:34016c**

Systèmes différentiels à points critiques fixes. V. Points singuliers des intégrales (suite). [Differential systems with fixed critical points. V. Singular points of integrals (continued)] **86c:34016d**

Systèmes différentiels à points critiques fixes. VI. Points singuliers des intégrales. [Differential systems with fixed critical points. VI. Singular points of integrals] **86c:34016e**

Systèmes différentiels à points critiques fixes. VII. Les systèmes différentiels polynomiaux stables. [Differential systems with fixed critical points. VII. Stable polynomial differential systems] **86c:34016f**

Cano Torres, Felipe (with Hermida Alonso, José Ángel; Lê Dũng Tráng) ★ Introducción a la geometría de los sistemas diferenciales. (Spanish) [Introduction to the geometry of differential systems] **86j:32001**

Cattani, Eduardo H. (with Kaplan, Aroldo) Sur la cohomologie L_2 et la cohomologie d'intersection à coefficients dans une variation de structure de Hodge. (English summary) [The L_2 -cohomology and the intersection cohomology of a variation of Hodge structures] **86d:32024**

Chakiris, Ken The Torelli problem for elliptic pencils. (See **86b:14004**)

Cox, David A. (with Parry, Walter R.) Representations associated with elliptic surfaces. **86a:14042**

Donagi, R. Generic Torelli and variational Schottky. (See **86b:14004**)

Elchenherr, H. See de Vega, H. J. et al., **86e:81099**

Françoise, Jean-Pierre Sur les action-angles de la toupie de Kowalevski. (English summary) [The action-angles of the Kovalevskaya top] **86m:58051**

Griffiths, P. A. (with Tu, Loring W.) Variation of Hodge structure. (See **86b:14004**)

See also Topics in transcendental algebraic geometry, **86b:14004**

Hermida Alonso, José Ángel See Cano Torres, Felipe et al., **86j:32001**

Hoffman, Jerome William The Hodge theory of stable curves. **86f:14013**

Kaplan, Aroldo See Cattani, Eduardo H., **86d:32024**

Lê Dũng Tráng See Cano Torres, Felipe et al., **86j:32001**

Mallet, J.-M. See de Vega, H. J. et al., **86e:81099**

Majima, Hideyuki Analogues of Cartan's decomposition theorem in asymptotic analysis. **86h:58009**

Mathieu, Philippe Systèmes de Gauss-Manin et structure de Hodge mixte sur la cohomologie évanescence. [Gauss-Manin systems and mixed Hodge structure on the vanishing cohomology] **86e:32018**

Miyazaki, M. An algebro-topological characterization of the affine space of dimension three. **86a:14040**

Parry, Walter R. See Cox, David A., **86a:14042**

Praegman, C. Formal decomposition of n commuting partial linear difference operators. **86d:39003**

Salto, Morihiko Supplement to: "Gauss-Manin system and mixed Hodge structure" [Proc. Japan Acad. Ser. A Math. Sci. 58 (1982), no. 1, 29-32; MR 83f:14006] **86e:32029**

Schmickler-Hirsbruch, Ulrike ★ Elliptische Flächen über P^1_C mit drei Ausnahme-fasern und die hypergeometrische Differentialgleichung. (German) [Elliptic surfaces over P^1_C with three exceptional fibers, and the hypergeometric differential equation] 86i:32053

Stillier, Peter Special values of Dirichlet series, monodromy, and the periods of automorphic forms. 86f:11043

Tu, Loring W. See Griffiths, P. A., (86b:14004)

Varadarajan, V. S. See Babbitt, Donald G., 86b:34010

de Vega, H. J. (with Eichenherr, H.; Maillet, J.-M.) Yang-Baxter algebras of monodromy matrices in integrable quantum field theories. 86e:81099

Verdier, Jean-Louis Spécialisation de faisceaux et monodromie modérée. [Specialization of sheaves and tempered monodromy] 86f:32010

Princeton, N.J. ★ Topics in transcendental algebraic geometry. 86b:14004

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Topics in transcendental algebraic geometry ★ Topics in transcendental algebraic geometry. 86b:14004

14D10 Arithmetic ground fields (finite, local, global)

Katz, Nicholas M. Expansion-coefficients as approximate solution of differential equations. (French summary) 86i:14006

secondary classifications (14D10)

André, Yves Sur certaines algèbres de Lie associées aux schémas abéliens. (English summary) [On certain Lie algebras associated with abelian schemes] 86e:14019

14D15 Formal methods; deformations [See also 13D10, 14B07, 16A58, 32Gxx.]

Berry, T. G. Infinitesimal deformations of cyclic covers. (Spanish summary) 86d:14011

Ueda, Takeshi On obstructions of infinitesimal lifting. 86b:14008

secondary classifications (14D15)

Ferrer Llop, Jose (with Puerta Sales, Fernando) Infinitesimal deformations of the germ of the n coordinate axes of C^n . (Spanish. English summary) (See 86h:00099a)

Semiuuniversal deformation of the germ of the n coordinate axes of C^n . (Catalan. English summary) (See 86g:00012a)

Flennner, Hubert Babylonian tower theorems on the punctured spectrum. 86j:14010

Greuel, G.-M. (with Looijenga, E.) The dimension of smoothing components. 86j:32016

Guillén Santos, F. (with Pascual Gaiña, Pere) Intersection of Gorenstein germs in codimension three. (Catalan. English summary) (See 86g:00012a)

Konno, Kasuhiro On deformations and the local Torelli problem of cyclic branched coverings. 86i:32039

Levine, Marc N. The stability of certain classes of uniruled varieties. 86c:14028

Looijenga, E. See Greuel, G.-M., 86j:32016

Pascual Gaiña, Pere See Guillén Santos, F., (86g:00012a)

Puerta Sales, Fernando See Ferrer Llop, Jose, (86h:00099a)

Rudakov, A. N. (with Shafarevich, I. R.) Degeneration of surfaces of type $K3$. (Russian) 86a:14038

Shafarevich, I. R. See Rudakov, A. N., 86a:14038

14D20 Algebraic moduli problems [For analytic moduli problems, see 32G13.]

Alekseev, V. N. Linear systems of collineations and null-systems of projective spaces. (Russian) 86h:14006

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 Opolka, Hans Galois representations, points of inflexion on elliptic curves and automorphic representations. **86c:11043**
 Raskind, Wayne "Le théorème de Mordell-Weil faible" pour $H^0(X, \mathcal{K}_2)/K_2k$. (English summary) ["The weak Mordell-Weil theorem" for $H^0(X, \mathcal{K}_2)/K_2k$] **86a:14017**
 Sansuc, Jean-Jacques See Beauville, Arnaud et al., **86m:14009**
 Schneider, Peter *p*-adic height pairings. II. **86j:11063**
 Silverman, Joseph H. Weierstrass equations and the minimal discriminant of an elliptic curve. **86k:11030**
 (Stepanov, S. A.) See Lang, Serge, **86c:11029**
 Stuhler, Ulrich On Drinfel'd's modular curves. **86h:11046**
 Swinnerton-Dyer, H. P. F. See Beauville, Arnaud et al., **86m:14009**
 Zagier, Don Bernard Modular parametrizations of elliptic curves. **86m:11041**
 See also Buhler, Joe P. et al., **86g:11037**

14G30 Real ground fields [See also 32C05. Must also be assigned at least one other number referring to the specific type of problem considered.]

- Akbulut, Selman Topology and real algebraic geometry. **86d:14018**
 (with King, Henry Churchill) A resolution theorem for homology cycles of real algebraic varieties. **86g:14011**
 Alonso, M. E. Semi-integral extensions and proper morphisms. **86f:14011**
 Beretta, Lucia A Bezout theorem in real algebraic geometry. (Italian) **86j:14012**
 Bröcker, Ludwig Minimal generation of basic semialgebraic sets. **86j:14016**
 Coste, Michel Sous-ensembles algébriques réels de codimension 1. (English summary) [Real algebraic subsets of codimension 1] **86k:14018**
 Delfs, Hans The homotopy axiom in semialgebraic cohomology. **86h:14016**
 King, Henry Churchill Survey on the topology of real algebraic sets. **86d:14017**
 See also Akbulut, Selman, **86d:14011**
 Knebusch, Manfred An invitation to real spectra. **86d:14019**
 Krasnov, V. A. Albanese mapping for *GMZ*-varieties. (Russian) **86i:14006**
 Mahé, Louis On the Pierce-Birkhoff conjecture. **86d:14020**
 Natanson, S. M. Spaces of real meromorphic functions on real algebraic curves. (Russian) **86k:14017**
 Rialer, Jean-Jacques Sur le 16ème problème de Hilbert: un résumé et quelques questions. [On Hilbert's 16th problem: a summary and some questions] **86j:14017**
 Ruiz, Jesús M. On Pythagorean real irreducible algebraic curves. **86h:14018**
 Schwartz, Niels Real closed spaces. **86g:14013**
 Seydl, Hamet Faisceaux cohérents en géométrie algébrique réelle. [Coherent sheaves in real algebraic geometry] **86j:14018**

secondary classifications (14G30)

- Akbulut, Selman (with King, Henry Churchill) The topology of real algebraic sets. **86d:14016a**
 (with King, Henry Churchill) The topology of real algebraic sets. **86d:14016b**
 (with King, Henry Churchill) Submanifolds and homology of nonsingular real algebraic varieties. **86m:14017**
 Alonso, M. E. (with Gamboa, J. M.; Ruiz, Jesús M.) On orderings in real surfaces. **86g:12005**
 Andradas, Carlos Real places in function fields. **86c:12002**
 Andradas Heras, Carlos On the generalized Thom lemma. (Spanish) **86i:14002**
 Becker, Eberhard (with Jacob, Bill) Rational points on algebraic varieties over a generalized real closed field: a model theoretic approach. **86h:14014**
 Bröcker, Ludwig Spaces of orderings and semialgebraic sets. **86m:12002**
 Minimale Erzeugung von Positivbereichen. [Minimal generation of positive domains] **86c:11024**
 Brumfiel, G. W. Witt rings and *K*-theory. **86h:18004**
 Bujalance, Emilio (with Gamboa, J. M.) Automorphism groups of algebraic curves of \mathbb{R}^n of genus 2. **86c:20045**
 Delfs, Hans Semialgebraic Borel-Moore-homology. **86g:14010**
 Delsz, Charles N. A continuous, constructive solution to Hilbert's 17th problem. **86c:12003**
 Piecewise-rational retractions onto closed, convex, semialgebraic sets with interior-synopsis. **86f:12009**
 Efroymsen, Gustave Research announcement on extending Nash functions off singular curves. **86i:58006**
 Gamboa, J. M. Extensions of semidefinite functions. **86f:12003**
 See also Bujalance, Emilio, **86c:20045** and Alonso, M. E. et al., **86g:12005**
 Gianni, Patrizia (with Traverso, Carlo) Shape determination for real curves and surfaces. (Italian summary) **86c:14018**
 Jacob, Bill See Becker, Eberhard, **86h:14014**
 King, Henry Churchill See Akbulut, Selman, **86d:14016a**; **86d:14016b** and **86m:14017**
 Lam, T. Y. An introduction to real algebra. **86g:12013**
 Mahé, Louis Sommes de carrés et anneaux de Witt réduits. (English summary) [Sums of squares and reduced Witt rings] **86a:11016**
 Marinari, M. G. (with Raimondo, Mario) On complete intersection real curves. **86c:14041**
 Mostowski, Tadeusz Topological equivalence between analytic and algebraic sets. (Russian summary) **86h:32010**
 Pillay, Anand (with Steinhorn, Charles) Definable sets in ordered structures. **86c:03033**
 Raimondo, Mario An algebraic property for Nash rings. (Italian summary) **86a:32025**
 See also Marinari, M. G., **86c:14041**

- Rocio Muñoz, Tomás J. Orders on real algebraic sets and analytic germs. **86d:13016**
 Risler, Jean-Jacques Hovanovsky's theorem and complexity theory. **86g:12004**
 Robson, Robert Constructing real prime divisors using Nash arcs. **86j:12003**
 Ruiz, Jesús M. See Alonso, M. E. et al., **86g:12006**
 Seppälä, Mika On moduli of real curves. **86i:14007**
 Silhol, R. Towards a classification of real algebraic surfaces. **86e:14017**
 Steinhorn, Charles See Pillay, Anand, **86c:03033**
 Stengle, Gilbert A lower bound for the complexity of separating functions. **86d:32004**
 Tassi Cantalupi, G. Questions of reality for real algebraic curves of an algebraic model of a nonorientable connected topological surface with connection order $h+1$ ($h \geq 3$). (Italian. English summary) **86f:14018**
 Tognoli, A. Some results on real algebraic cycles. **86h:32017**
 Traverso, Carlo See Gianni, Patrizia, **86c:14018**

14G99 None of the above, but in this section

secondary classifications (14G99)

- Aoki, Noboru On some arithmetic problems related to the Hodge cycles on the Fermat varieties. **86g:14004a**
 Erratum: "On some arithmetic problems related to the Hodge cycles on the Fermat varieties". **86g:14004b**
 Bulum, Alexandru Corps de définition des variétés algébriques et théorie de Galois pour les corps différentiels. (English summary) [Fields of definition of algebraic varieties and Galois theory of differential fields] **86f:12007**
 Faltings, Gerd Calculus on arithmetic surfaces. **86e:14009**
 Laurent, Michel Équations diophantiennes exponentielles. [Exponential Diophantine equations] **86j:11062**
 Masser, D. W. (with Wüstholz, G.) Zero estimates on group varieties. II. **86h:11054**
 Wüstholz, G. See Masser, D. W., **86h:11054**

14Hxx Curves

- Arbarello, E. (with Cornalba, Maurizio; Griffiths, P. A.; Harris, Joseph Daniel) ★ Geometry of algebraic curves. Vol. I. **86h:14019**
 Cornalba, Maurizio The new face of the theory of algebraic curves. (Italian) **86j:14019**
 See also Arbarello, E. et al., **86h:14019**
 Griffiths, P. A. See Arbarello, E. et al., **86h:14019**
 Harris, Joseph Daniel See Arbarello, E. et al., **86h:14019**
 Namba, Makoto ★ Geometry of projective algebraic curves. **86d:14021**
 On the geometry of algebraic curves. (Japanese) **86d:14022**

14H05 Algebraic functions [See also 14K20, 32G20.]

- Popp, Herbert Über eine Schranke für den Satz von De Franchis-Severi. (English and Italian summaries) [On a bound for the theorem of De Franchis-Severi] **86m:14018**

secondary classifications (14H05)

- Brown, Martin Lawrence A note on Euclidean rings of affine curves. **86f:13014**
 Cutillas Ripoll, Pascual Construction of certain function fields associated with a compact Riemann surface. **86a:30077**
 Gerritsen, L. Integrale zweiter Gattung auf Mumfordkurven. [Integrals of the second kind on Mumford curves] **86e:14008**
 Rück, Hans-Georg Divisorklassen der Ordnung l bei Kongruenzfunktionenkörpern. [Divisor classes of order l in congruence function fields] **86f:11089**

14H10 Families, moduli (algebraic)

- Arbarello, E. (with Cornalba, Maurizio) A few remarks about the variety of irreducible plane curves of given degree and genus. **86a:14020**
 Aure, Alf Bjørn Plücker conditions on plane rational curves. **86j:14020**
 Ballico, Edoardo On the rationality of the variety of smooth rational space curves with fixed degree and normal bundle. **86a:14021**
 Bardelli, Fabio (with Del Centina, Andrea) Nodal cubic surfaces and the rationality of the moduli space of curves of genus two. **86c:14020**
 Ciliberto, Ciro Some applications of a classical method of Castelnuovo. (Italian) **86j:14021**
 Cornalba, Maurizio Systèmes pluricanoniques sur l'espace des modules des courbes et diviseurs de courbes k -gonales (d'après Harris et Mumford). [Pluricanonical systems on the moduli space of curves and divisors of k -gonal curves (following Harris and Mumford)] **86c:14021**
 See also Arbarello, E., **86a:14020**
 Del Centina, Andrea See Bardelli, Fabio, **86c:14020**
 Dias, Steven Exceptional Weierstrass points and the divisor on moduli space that they define. **86j:14022**
 Ellia, Philippe (with Fiorentini, Mario) Défaut de postulation et singularités du schéma de Hilbert. (Italian summary) [Defect of postulation and singularities in the Hilbert scheme] **86k:14019**
 Fiorentini, Mario See Ellia, Philippe, **86k:14019**
 Greuel, G.-M. A remark on the paper: "On the classical characteristic linear series of plane curves with nodes and cuspidal points: two examples of Beniamino Segre" [Compositio Math. 51 (1984), no. 2, 169-183; MR 86a:14022a] by A. Tannenbaum. **86a:14022b**
 Griffin, Edmond E., II The component structure of W_6^2 . **86j:14023**
 Harris, Joseph Daniel On the Kodaira dimension of the moduli space of curves. II. The even-genus case. **86j:14024**
 Kempf, George R. Weighted partitions and patterns. **86c:14022**
 Mestrano, Nicole Degré des diviseurs sur les familles de courbes de P^3 . [Degree of divisors on families of curves of P^3] **86h:14020**
 (Strømme, S. A.) See Aure, Alf Bjørn, **86j:14020**

- Tannenbaum, A. On the classical characteristic linear series of plane curves with nodes and cuspidal points: two examples of Beniamino Segre. **86a:14022a**
 See also Greuel, G.-M., **86a:14022b**

secondary classifications (14H10)

- Cornalba, Maurizio The new face of the theory of algebraic curves. (Italian) **86j:14019**
 Donagi, R. The unirationality of A_5 . **86h:14034**
 Gieseker, D. A construction of special space curves. **86a:14032**
 Gudkov, D. A. (with Shustin, E. I.) On the intersection of the close algebraic curves. **86i:14008**
 Harris, Joseph Daniel Recent work on M_g . **86m:14019**
 (with Tu, Loring W.) Chern numbers of kernel and cokernel bundles. **86j:14025**
 Katsylo, P. I. Rationality of the moduli spaces of hyperelliptic curves. (Russian) **86c:14008**
 Rationality of fields of invariants of reducible representations of the group SL_2 . (Russian) **86c:14009**
 Kleiman, Steven L. The structure of the compactified Jacobian: a review and announcement. **86d:14030**
 Levine, Marc N. (with Srinivas, V.) Zero cycles on certain singular elliptic surfaces. **86d:14009**
 Miranda, Rick Triple covers in algebraic geometry. **86k:14008**
 Moret-Bailly, Laurent Un théorème de pureté pour les familles de courbes lisses. (English summary) [A purity theorem for families of smooth curves] **86f:14006**
 Nobile, Augusto On families of singular plane projective curves. **86f:14015**
 Piene, Ragni (with Schlessinger, Michael) On the Hilbert scheme compactification of the space of twisted cubics. **86m:14004**
 Popp, Herbert Über eine Schranke für den Satz von De Franchis-Severi. (English and Italian summaries) [On a bound for the theorem of De Franchis-Severi] **86m:14018**
 Schlessinger, Michael See Piene, Ragni, **86m:14004**
 Shustin, E. I. See Gudkov, D. A., **86i:14008**
 Srinivas, V. See Levine, Marc N., **86d:14009**
 Tu, Loring W. See Harris, Joseph Daniel, **86j:14025**

14H15 Families, moduli (analytic) [See also 30F10, 32G15, 32G20.]

- Aubert, Karl Egil Arithmetic on open Riemann surfaces. **86k:14020**
 Dias, Steven Tangent spaces in moduli via deformations with applications to Weierstrass points. **86d:14023**
 Moduli of curves with two exceptional Weierstrass points. **86f:14012**
 Harris, Joseph Daniel Recent work on M_g . **86m:14019**
 Hoffman, Jerome William The Hodge theory of stable curves. **86f:14013**
 Kuribayashi, Akikazu (with Kuribayashi, Izumi) A classification of compact Riemann surfaces of genus four. **86f:14014**
 Kuribayashi, Izumi See Kuribayashi, Akikazu, **86f:14014**
 Seppälä, Mika On moduli of real curves. **86i:14007**
 Verra, Alessandro A short proof of the unirationality of A_5 . **86j:14026**

secondary classifications (14H15)

- Accola, Robert D. M. Some loci in Teichmüller space for genus six defined by vanishing thetannuli. **86e:32027**
 Duma, Andrei (with Radtke, Wolfgang) Automorphismen und Modulraum Galoischer dreiblättriger Überlagerungen. (English summary) [Automorphisms and moduli space of Galois three-sheeted coverings] **86i:32041**
 Gindikin, S. G. Reductions of manifolds of rational curves and related problems of the theory of differential equations. (Russian) **86m:32037**
 Melxner, Gerhard ★ Ein algebraischer Modulraum für die kompakten Riemannschen Flächen vom Geschlecht g . (German) [An algebraic moduli space for the compact Riemann surfaces of genus g] **86a:32046**
 Nakagawa, Kenji On the orders of automorphisms of a closed Riemann surface. **86a:30073**
 Radtke, Wolfgang See Duma, Andrei, **86i:32041**
 Wolpert, Scott On the homology of the moduli space of stable curves. **86h:32036**

14H20 Singularities, local rings [See also 13Hxx.]

- Bayer, Valmecir Semigroup of two irreducible algebroid plane curves. **86d:14024**
 Blanco Martín, María Francisca Behavior of the Kunz function of an algebraic branch. (Spanish) (See **86h:00009b**)
 Campillo López, Antonio Equisingular deformations of plane curves. (Spanish. English summary) (See **86h:00009b**)
 Invariants of local rings and deformations of plane curves (of characteristic $p > 0$). (Spanish. English summary) **86h:14021**
 Casas Alvero, E. Skew curve branches and their plane projections. (Spanish. English summary) (See **86h:00009b**)
 Goñi Mateo, Juan On the "anomalous" behavior of the first polar. (Spanish. English summary) (See **86g:00012a**)
 Greuel, G.-M. (with Knörrer, Horst) Einfache Kurvensingularitäten und torsionsfreie Moduln. [Simple curve singularities and torsion-free modules] **86d:14025**
 Gudkov, D. A. (with Shustin, E. I.) On the intersection of the close algebraic curves. **86i:14008**
 Knörrer, Horst See Greuel, G.-M., **86d:14025**
 Kraft, Jürgen Singularity of monomial curves in A^3 and Gorenstein monomial curves in A^4 . **86m:14020**
 Ngô Việt Trung Projections of one-dimensional Veronese varieties. **86c:14023**
 Nobile, Augusto On families of singular plane projective curves. **86f:14015**
 Shustin, E. I. See Gudkov, D. A., **86i:14008**
 Sodhi, Amar Ordinary singularities of curves. **86h:14022**

secondary classifications (14H20)

- Aure, Alf Bjørn Plücker conditions on plane rational curves. **86j:14020**
- Bolleau, M. (with Weber, Claude) Le problème de J. Milnor sur le nombre gordien des nœuds algébriques. [J. Milnor's problem on the unknotting number of algebraic knots] **86c:57004**
- Cavaliere, Maria Pia (with Niesi, Gianfranco) The equations of a monomial projective curve. (Italian. English summary) **86m:14035**
- Geramita, A. V. (with Maroscia, P.) The ideal of forms vanishing at a finite set of points in P^n . **86a:14025**
- Greuel, G.-M. A remark on the paper: "On the classical characteristic linear series of plane curves with nodes and cuspidal points: two examples of Beniamino Segre" [Compositio Math. **51** (1984), no. 2, 169-183; MR **86a:14022a**] by A. Tannenbaum. **86a:14022b**
- Knebl, Helmut Ebene algebraische Kurven vom Typ p, q . (English summary) [Plane algebraic curves of type p, q] **86a:14033**
- Lorenzini, Anna On the Betti numbers of the ideal of s points in P^n . **86d:13015**
- Maroscia, P. See Geramita, A. V., **86a:14025**
- Michel, Françoise (with Weber, Claude) Une singularité isolée dont la monodromie n'admet pas de forme de Jordan sur les entiers. (English summary) [An isolated singularity whose monodromy does not admit a Jordan form over the integers] **86c:32006**
- Morales, Marcelo Polyèdre de Newton et genre géométrique d'une singularité intersection complète. (English summary) [Newton polyhedron and geometric genus of a complete intersection singularity] **86m:14002**
- Niesi, Gianfranco See Cavaliere, Maria Pia, **86m:14035**
- Nori, Madhav V. Zariiski's conjecture and related problems. **86d:14027**
- (Strømme, S. A.) See Aure, Alf Bjørn, **86j:14020**
- Tannenbaum, A. On the classical characteristic linear series of plane curves with nodes and cuspidal points: two examples of Beniamino Segre. **86a:14022a**
See also Greuel, G.-M., **86a:14022b**
- Weber, Claude See Michel, Françoise, **86c:32006** and Bolleau, M., **86c:57004**

14H25 Arithmetic ground fields [See also 11Dxx, 14Gxx.]

- Bosch, Siegfried (with Lütkebohmert, Werner) Stable reduction and uniformization of abelian varieties. I. **86j:14040a**
- Davis, Edward D. (with Maroscia, P.) Affine curves on which every point is a set-theoretic complete intersection. **86g:14014**
- Dèbes, Pierre Quelques remarques sur un article de Bombieri concernant le théorème de décomposition de Weil. [Some remarks on an article of Bombieri concerning the Weil decomposition theorem] **86d:14026**
- Faltings, Gerd Calculus on arithmetic surfaces. **86e:14009**
- Hriljac, Paul Heights and Arakelov's intersection theory. **86c:14024**
- Lütkebohmert, Werner See Bosch, Siegfried, **86j:14040a**
- Maroscia, P. See Davis, Edward D., **86j:14014**
- van der Put, Marius Stable reductions of algebraic curves. **86a:14023**

secondary classifications (14H25)

- Anderson, Greg W. (with Indik, Robert) On primes of degree one in function fields. **86h:11107**
- Gerritsen, L. Integrale zweiter Gattung auf Mumfordkurven. [Integrals of the second kind on Mumford curves] **86e:14008**
- Heinrich, Elkedagmar (with van der Put, Marius) Über die Picardgruppen affinoider Algebren. [On the Picard groups of affinoid algebras] **86g:14003**
- Indik, Robert See Anderson, Greg W., **86h:11107**
- Jarraud, Pierre Jacobiniennes des courbes de Mumford. [Jacobians of Mumford curves] **86g:14016**
- Manin, Yu. I. See Vlăduț, Serge G., **86h:94024**
- van der Put, Marius See Heinrich, Elkedagmar, **86g:14003**
- Rohrlich, David E. Weierstrass points and modular forms. **86e:11032**
- Vlăduț, Serge G. (with Manin, Yu. I.) Linear codes and modular curves. (Russian) **86h:94024**
- Wingberg, Kay Ein Analogon zur Fundamentalgruppe einer Riemannschen Fläche im Zahlkörperfall. [An analogue of the fundamental group of a Riemann surface in the case of a number field] **86e:11104**

14H30 Coverings, fundamental group

- Camuto, Giuseppe On the monodromy of Weierstrass points. **86a:14024**
- Del Centina, Andrea g_L^1 's on an unramified double cover of a k -gonal curve and applications. (Italian summary) **86k:14021**
- Harbater, David Ordinary and supersingular covers in characteristic p . **86h:14023**
- Kaneko, Jyotchi On the fundamental group of the complement to a maximal cuspidal plane curve. **86h:14024**
- Kuribayashi, Akikazu (with Murase, Nobuyuki) Some applications of the existence theorem and the representability theorem of a Riemann surface. **86m:14021**
- Murase, Nobuyuki See Kuribayashi, Akikazu, **86m:14021**
- Nori, Madhav V. Zariiski's conjecture and related problems. **86d:14027**
- Zverovich, E. I. Construction of a field of algebraic functions corresponding to a given covering of a sphere. (Russian. English summary) **86g:14015**

secondary classifications (14H30)

- Bujalance, Emilio (with Etayo, J. J.; Gamboa, J. M.) Hyperelliptic Klein surfaces. **86g:30057**
- Duma, Andrei (with Radtke, Wolfgang) Automorphismen und Modulraum Galoischer dreiblättriger Überlagerungen. (English summary) [Automorphisms and moduli space of Galois three-sheeted coverings] **86i:32041**
- Etayo, J. J. See Bujalance, Emilio et al., **86g:30057**

- Etayo Godejuela, J. J. Klein surfaces with maximal symmetry and their groups of automorphisms. **86g:30058**
- Fisher, Robert J., Jr. On the existence of principal bundle structures for compact Riemann surfaces of genus $g \geq 1$. **86a:30078**
- Gamboa, J. M. See Bujalance, Emilio et al., **86g:30057**
- Kuribayashi, Akikazu (with Kuribayashi, Izumi) A classification of compact Riemann surfaces of genus four. **86f:14014**
- Kuribayashi, Izumi See Kuribayashi, Akikazu, **86f:14014**
- Lê Dũng Tráng (with Saito, Kyoji) The local π_1 of the complement of a hypersurface with normal crossings in codimension 1 is abelian. **86a:32019**
- Popp, Herbert Über eine Schranke für den Satz von De Franchis-Severi. (English and Italian summaries) [On a bound for the theorem of De Franchis-Severi] **86m:14018**
- Radtke, Wolfgang See Duma, Andrei, **86i:32041**
- Saito, Kyoji See Lê Dũng Tráng, **86a:32019**
- Wingberg, Kay Ein Analogon zur Fundamentalgruppe einer Riemannschen Fläche im Zahlkörperfall. [An analogue of the fundamental group of a Riemann surface in the case of a number field] **86e:11104**

14H35 Correspondences [See also 14Exx.]

- Galbură, Gheorghe Sur l'anneau des correspondances d'une courbe algébrique. [On the ring of correspondences of an algebraic curve] **86d:14028**
- Kani, Ernst On Castelnuovo's equivalence defect. **86d:14029**
- Muñoz Porras, José Ma. Algebraic correspondences on generic curves. (Spanish. English summary) (See **86g:00012a**)

secondary classifications (14H35)

- Kempf, George R. Inverse images of theta divisors. **86g:14017**

14H40 Jacobians [See also 32G20.]

- Arbarello, E. (with De Concini, Corrado) On a set of equations characterizing Riemann matrices. **86a:14025**
- Collino, Alberto A new proof of the Ran-Matsusaka criterion for Jacobians. **86a:14026**
- De Concini, Corrado See Arbarello, E., **86a:14025**
- Farkas, Hershel M. On Fay's tri-secant formula. **86j:14027**
- Fay, John On the even-order vanishing of Jacobian theta functions. **86h:14025**
- Jarraud, Pierre Jacobiniennes des courbes de Mumford. [Jacobians of Mumford curves] **86g:14016**
- Kempf, George R. Curves of g_d^1 's. **86j:14028**
Inverse images of theta divisors. **86g:14017**
- Kleiman, Steven L. The structure of the compactified Jacobian: a review and announcement. **86d:14030**
- Martens, Gerriet On dimension theorems of the varieties of special divisors on a curve. **86b:14014**
- Mulase, Motohiko Cohomological structure in soliton equations and Jacobian varieties. **86f:14016**
- Teixidor i Bigas, Montserrat For which Jacobi varieties is $\text{Sing } \Theta$ reducible? **86c:14025**
- Welters, G. E. On flexes of the Kummer variety (note on a theorem of R. C. Gunning). **86a:14010**
A criterion for Jacobi varieties. **86e:14011**

secondary classifications (14H40)

- Berry, T. G. Detecting torsion divisors on curves of genus 2. **86j:14033**
- Bogoyavlenskii, O. I. New integrable problem of classical mechanics. **86b:58058**
- Bosch, Siegfried (with Lütkebohmert, Werner) Stable reduction and uniformization of abelian varieties. I. **86j:14040a**
- Coppens, M. Some sufficient conditions for the gonality of a smooth curve. **86g:14020**
- Flaschka, H. Towards an algebro-geometric interpretation of the Neumann system. **86e:58042**
- Gagnon, L. (with Harnad, J.; Winternitz, P.) Group projection method and the separation of variables for an integrable Hamiltonian system. (See **86i:81002**)
- van Geemen, Bert Siegel modular forms vanishing on the moduli space of curves. **86d:14040**
- Harnad, J. See Gagnon, L. et al., **(86i:81002)**
- Kanev, V. I. Intermediate Jacobians of threefolds with a pencil of Del Pezzo surfaces and generalized Prym varieties. **86a:14043**
- Kani, Ernst On Castelnuovo's equivalence defect. **86d:14029**
- Lütkebohmert, Werner See Bosch, Siegfried, **86j:14040a**
- van Moerbeke, Pierre Algebraic complete integrability of Hamiltonian systems and Kac-Moody Lie algebras. **86k:58053**
- Morita, Shigeyuki Family of Jacobian manifolds and characteristic classes of surface bundles. **86i:32045a**
Family of Jacobian manifolds and characteristic classes of surface bundles. II. **86i:32045b**
- Mumford, David ★ Tata lectures on theta. II. **86b:14017**
- (Muallil, C.) See Mumford, David, **86b:14017**
- Neeman, Amnon The distribution of Weierstrass points on a compact Riemann surface. **86a:14014**
- (Nori, Madhav V.) See Mumford, David, **86b:14017**
- Novikov, S. P. See Veselov, A. P., **86j:58062**
- (Prevato, E.) See Mumford, David, **86b:14017**
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- (Umehura, H.) See Mumford, David, **86b:14017**
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- Chiantini, Luca (with Valabrega, Paolo) Subcanonical curves and complete intersections in projective 3-space. (Italian summary) 86k:14035
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- Strømme, S. A. See Ellingsrud, G. et al., 86g:14021
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- Davis, Edward D. On a theorem of Beniamino Segre. 86g:14027
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- Green, Mark Koszul cohomology and the geometry of projective varieties. II. 86j:14011
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- Harbourne, Brian Very ample divisors on rational surfaces. 86k:14026
- Ida, Monica On rational maps and deformations of quadric and cubic hypersurfaces. 86m:14006
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Tsunoda, S. (with Miyazaki, M.) The structure of open algebraic surfaces. II. **86c:14030**

Vielweg, Eckart Zur Klassifikationstheorie drei (und höher) dimensionaler projektiver Mannigfaltigkeiten. [On the classification theory of three- (and higher-) dimensional projective manifolds] **86d:14032**

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Beauville, Arnaud Variétés Kähleriennes dont la première classe de Chern est nulle. [Kähler manifolds whose first Chern class is zero] **86c:32030**

Bryant, Robert L. (with Griffiths, P. A.) Some observations on the infinitesimal period relations for regular threefolds with trivial canonical bundle. **86a:32044**

Donagi, R. Generic Torelli and variational Schottky. (See **86b:14004**)

Epema, D. H. J. ★ Surfaces with canonical hyperplane sections. **86c:14015**

Friedman, Robert David The period map at the boundary of moduli. (See **86b:14004**) A new proof of the global Torelli theorem for $K3$ surfaces. **86k:14028**

Griffiths, P. A. See Bryant, Robert L., **86a:32044**

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14J17 Singularities of surfaces

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Brenton, Lawrence See Blindschadler, David et al., **86i:14011**

Di Sante, Alessandro Nonnormal isolated double points of surfaces in P^4 . (Italian. English summary) **86g:14022**

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Kulikov, V. S. The number of singular focal centers of projection of an algebraic surface. (Russian) **86b:14016**

Loofjenga, E. The smoothing components of a triangle singularity. II. **86d:14033**

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Hürlimann, W. On algebraic tori of norm type. **86h:11032**

Kato, Kazuya (with Saito, Shuji) Unramified class field theory of arithmetical surfaces. **86c:14006**

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Satake, Ichirō On numerical invariants of arithmetic varieties of Q -rank one. **86i:32058**

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Tsuyumine, Shigeaki On the Kodaira dimensions of Hilbert modular varieties. **86h:11040**

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Romoni, M. C. Fourth-order monoidal surfaces of P^3 with set-theoretic complete intersection curves. (Italian. English summary) **86d:14034**

Sakai, Fumio Weil divisors on normal surfaces. **86m:14025**

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Papantonopolou, A. Corrigendum to: "Surfaces in the Grassmann variety $G(1,3)$ " [Proc. Amer. Math. Soc. 77 (1979), no. 1, 15-18; MR 80j:14045]. **86m:14037**

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Kunyavskii, B. Ė. (with Tsfasman, M. A.) Zero-cycles on rational surfaces and Néron-Severi tori. (Russian) **86f:14004**

Lafontaine, J. Surfaces de Hirzebruch. [Hirzebruch surfaces] (See **86i:53020**)

Okonek, Christian Über 2-codimensionale Untermannigfaltigkeiten vom Grad 7 in P^4 und P^5 . [On 2-codimensional submanifolds of degree 7 in P^4 and P^5] **86a:14035**

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14J27 Elliptic surfaces

- Burns, Daniel M., Jr. On the geometry of elliptic modular surfaces and representations of finite groups. **86a:14037**
- Katsura, Toshiyuki The unirationality of certain elliptic surfaces in characteristic p . **86f:14021**

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- Chakiris, Ken The Torelli problem for elliptic pencils. (See **86b:14004**)
- Cox, David A. (with Parry, Walter R.) Representations associated with elliptic surfaces. **86a:14042**
- Gurjar, R. V. (with Shastri, A. R.) Covering spaces of an elliptic surface. **86h:32045**
- Hunt, Bruce (with Meyer, Werner) Mixed automorphic forms and invariants of elliptic surfaces. **86j:32055**
- Levine, Marc N. (with Srinivas, V.) Zero cycles on certain singular elliptic surfaces. **86d:14009**
- Meyer, Werner See Hunt, Bruce, **86j:32055**
- Nori, Mangala On certain elliptic surfaces with maximal Picard number. **86m:14022**
- Parry, Walter R. See Cox, David A., **86a:14042**
- Schmickler-Hirsebruch, Ulrike ★ Elliptische Flächen über P_1C mit drei Ausnahmefasern und die hypergeometrische Differentialgleichung. (German) [Elliptic surfaces over P_1C with three exceptional fibers, and the hypergeometric differential equation] **86i:32053**
- Shastri, A. R. See Gurjar, R. V., **86h:32045**
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14J28 $K3$ -surfaces and Enriques surfaces

- Barth, Wolf Paul Lectures on $K3$ - and Enriques surfaces. **86m:14027**
- Cossec, F. Projective models of Enriques surfaces. **86d:14035**
- On the Picard group of Enriques surfaces. **86k:14027**
- (with Dolgachev, I.) Smooth rational curves on Enriques surfaces. **86m:14028**
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- Namikawa, Yukihiko Periods of Enriques surfaces. **86j:14035**
- Rudakov, A. N. (with Shafarevich, I. R.) Degeneration of surfaces of type $K3$. (Russian) **86a:14038**
- Shafarevich, I. R. See Rudakov, A. N., **86a:14038**
- Verra, Alessandro The étale double covering of an Enriques surface. **86m:14029**

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- Berry, T. G. Detecting torsion divisors on curves of genus 2. **86j:14033**
- Beukers, F. See Stienstra, Jan, **86j:14045**
- Bourguignon, Jean-Pierre Les surfaces $K3$. [$K3$ -surfaces] (See **86i:53020**)
- Cossec, F. (with Dolgachev, I.) On automorphisms of nodal Enriques surfaces. **86f:14028**
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- Morrison, David R. The Kuga-Satake variety of an abelian surface. **86j:14041**
- Mukai, Shigeru (with Namikawa, Yukihiko) Automorphisms of Enriques surfaces which act trivially on the cohomology groups. **86i:14012**
- Namikawa, Yukihiko See Mukai, Shigeru, **86i:14012**
- Nikulin, V. V. Description of automorphism groups of Enriques surfaces. (Russian) **86c:14033**
- $K3$ surfaces with a finite group of automorphisms and a Picard group of rank three. (Russian) **86c:14018**
- Ogus, Arthur F -isocrystals and de Rham cohomology. II. Convergent isocrystals. **86j:14012**
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- Sterk, Hans Finiteness results for algebraic $K3$ surfaces. **86j:14038**
- Stienstra, Jan (with Beukers, F.) On the Picard-Fuchs equation and the formal Brauer group of certain elliptic $K3$ -surfaces. **86j:14045**
- Verra, Alessandro A short proof of the unirationality of A_5 . **86j:14026**

14J29 Surfaces of general type

- Barlow, Rebecca Some new surfaces with $p_g = 0$. **86c:14032**
- Catanesse, Fabrizio M. E. On the moduli spaces of surfaces of general type. **86h:14031**
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14J30 Special 3-folds [See also 14E05.]

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- Endryushka, S. Yu. Nonrationality of the general Enriques threefold. (Russian) **86f:14024**
- Hanamura, Masaki Pluricanonical maps of minimal 3-folds. **86f:14025**
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- Apostolova, M. P. A hyperquintic in P_4 , obtained by stereographic projection of a quadric on a plane. (Bulgarian. English and Russian summaries) **86d:14053**
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- Benveniste, X. Sur le cône des 1-cycles effectifs en dimension 3. [On the cone of effective 1-cycles in dimension 3] **86j:14005**
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- Okonek, Christian Über 2-codimensionale Untermannigfaltigkeiten vom Grad 7 in P^4 und P^5 . [On 2-codimensional submanifolds of degree 7 in P^4 and P^5] **86a:14035**
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- Mori, Shigefumi Cone of curves, and Fano 3-folds. **86k:14010**
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- Mukai, Shigeru (with Namikawa, Yukihiko) Automorphisms of Enriques surfaces which act trivially on the cohomology groups. **86i:14012**
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- 14K22 Complex multiplication** [See also **11G15**.]
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- Brattström, Gudrun (with Lichtenbaum, Stephen) Jacobi-sum Hecke characters of imaginary quadratic fields. **86b:11104**
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- 14K25 Theta functions**
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- Morikawa, Hisasi A decomposition theorem on differential polynomials of theta functions. **86k:14032**
- Mumford, David ★ Tata lectures on theta. II. **86b:14017**
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- Chudnovsky, D. V. (with Chudnovsky, G. V.) Some remarks on theta functions and S -matrices. **86j:58053**
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- Prikarpat-skii, A. K. Algebro-geometric integration of nonlinear differential equations of mathematical physics of Schrödinger type. (Russian) **86c:58073**
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14K30 Picard schemes, higher Jacobians

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- El Zein, Fouad (with Zucker, Steven M.) Extendability of normal functions associated to algebraic cycles. (See **86b:14004**)
- Kanev, V. I. Intermediate Jacobians of threefolds with a pencil of Del Pezzo surfaces and generalized Prym varieties. **86a:14043**
- Skorobogatov, A. N. The Kuga-Satake variety of a Kummer surface. (Russian) **86j:14043**
- Zucker, Steven M. Intermediate Jacobians and normal functions. (See **86b:14004**)
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- Beltrametti, Mauro (with Francia, Paolo) A property of the regular morphisms. **86c:14003**
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- Kempf, George R. Inverse images of theta divisors. **86g:14017**
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- Murre, Jacob P. Un résultat en théorie des cycles algébriques de codimension deux. (English summary) [A result in the theory of algebraic cycles of codimension two] **86c:14004**
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- Krasnov, V. A. Albanese mapping for GMZ -varieties. (Russian) **86i:14006**
- Ogus, Arthur F -isocrystals and de Rham cohomology. II. Convergent isocrystals. **86j:14012**
- Smyth, Brian (with Sommese, Andrew John) On the degree of the Gauss mapping of a submanifold of an abelian variety. **86a:14049**
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14Lxx Group schemes {For linear algebraic groups, see **20Gxx**. For Lie algebras, see **17B45**.}

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 Zink, Thomas \star Cartiertheorie kommutativer formaler Gruppen. (German) [Cartier theory of commutative formal groups] 86j:14046

secondary classifications (14L05)

- Joyal, André δ -anneaux et vecteurs de Witt. [δ -rings and Witt vectors] 86j:13023
 δ -anneaux et λ -anneaux. [δ -rings and λ -rings] 86j:13024
 Maison, A. K. The homology of a certain Hopf algebra over $(\text{mod } p)$ Lazard's universal ring. 86i:18017
 Morava, Jack Noetherian localisations of categories of cobordism comodules. 86g:55004
 Nygaard, Niels O. On superregular abelian varieties. 86f:14030
 de Shalit, Ehud Relative Lubin-Tate groups. 86m:11095
 Würfler, Urs Formal groups and ring structures for certain periodic cohomology theories. 86c:55001

14L10 Group varieties

- Knop, F. (with Lange, Herbert) Commutative algebraic groups and intersections of quadrics. 86f:14031
 Lange, Herbert Translations sur les groupes algébriques commutatifs. (English summary) [Translations of commutative algebraic groups] 86c:14022
 See also Knop, F., 86f:14031

secondary classifications (14L10)

- Faltings, Gerd (with Wüstholz, G.) Einbettungen kommutativer algebraischer Gruppen und einige ihrer Eigenschaften. [Embeddings of commutative algebraic groups and some of their properties] 86f:11056
 Maser, D. W. Zero estimates on group varieties. 86k:11036
 Moreau, Jean-Charles Démonstrations géométriques de lemmes de zéros. II. [Geometric proofs of Nullstellensätze. II] 86b:11051b
 Démonstrations géométriques de lemmes de zéros. I. [Geometric proofs of Nullstellensätze] 86b:11051a
 Renner, Lex E. Reductive monoids are von Neumann regular. 86h:14001
 Spaltenstein, N. Existence of good transversal slices to nilpotent orbits in good characteristic. 86c:14035
 Springer, T. A. A purity result for fixed point varieties in flag manifolds. 86c:14034
 Wüstholz, G. See Faltings, Gerd, 86f:11056

14L15 Group schemes

- Waterhouse, William C. Symmetric determinants and Jordan norm similarities in characteristic 2. 86b:14035

secondary classifications (14L15)

- Breen, Lawrence (with Ekedahl, Torsten) Construction et propriétés de la sphère schématique. (English summary) [Construction and properties of the schematic sphere] 86k:14016
 Bruhat, F. (with Tits, J.) Groupes réductifs sur un corps local. II. Schémas en groupes. Existence d'une donnée radicielle valuée. [Reductive groups over a local field. II. Group schemes. Existence of valued root data] 86c:20042
 Ekedahl, Torsten See Breen, Lawrence, 86k:14016
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 Strano, Rosario On the étale cohomology of Hensel rings. 86g:14009
 Tits, J. See Bruhat, F., 86c:20042

14L17 Affine algebraic groups, hyperalgebra constructions [See also 17B45, 18D35.]

- Haboush, W. Brauer groups of homogeneous spaces. I. 86j:14047

secondary classifications (14L17)

- Andersen, Henning Haahr (with Jantzen, Jens Carsten) Cohomology of induced representations for algebraic groups. 86g:20057
 Jantzen, Jens Carsten See Andersen, Henning Haahr, 86g:20057
 Magid, Andy R. On the imprimitivity theorem for algebraic groups. 86f:20044

14L20 Finite group schemes

secondary classifications (14L20)

- Lusztig, George \star Characters of reductive groups over a finite field. 86j:20033
 Characters of reductive groups over finite fields. 86i:20062

14L25 Pro-algebraic group schemes

- Gaudier, Henri Facteurs directs dans les produits de groupes de Witt. [Direct factors in products of Witt groups] 86d:14044
 Magid, Andy R. Coordinate rings of pronilpotent groups. 86h:14036

secondary classifications (14L25)

- Donaldson, S. K. Instantons and geometric invariant theory. 86m:32043

14L30 Group actions on varieties or schemes [See also 14D25.]

- Abeasis, S. Codimension 1 orbits and semi-invariants for the representations of an oriented graph of type A_n . 86h:14037
 Codimension 1 orbits and semi-invariants for the representations of an equioriented graph of type D_n . 86h:14038
 Adamovich, O. M. (with Golovina, E. O.) Simple linear Lie groups having a free algebra of invariants. 86a:14044
 Bardale, Peter (with Richardson, R. W.) Étale slices for algebraic transformation groups in characteristic p . 86m:14034
 (Boffi, Glandomenico) See Procesi, Claudio, 86d:14045
 Bogomolov, F. A. (with Katsylo, P. I.) Rationality of some quotient varieties. (Russian) 86i:14033
 Bul'Vet Kha Classification of ternary forms of the fourth degree with a nontrivial group of automorphisms. (Russian) (See 86f:00007)
 Dadok, Jiri (with Kac, Victor G.) Polar representations. 86c:14023
 Friedland, S. Simultaneous similarity of matrices. 86b:14020
 Golovina, E. O. See Adamovich, O. M., 86a:14044
 Jurkiewicz, Jerry Linearization of the multiplicative group action of degree two and Jordan algebras. (Russian summary) 86g:14026
 Kac, Victor G. See Dadok, Jiri, 86c:14023
 Katsylo, P. I. See Bogomolov, F. A., 86i:14033
 Nakajima, Haruhisa Quotient singularities which are complete intersections. 86h:14039
 Procesi, Claudio \star A primer of invariant theory. 86d:14045
 Richardson, R. W. See Bardale, Peter, 86m:14034
 Spaltenstein, N. Existence of good transversal slices to nilpotent orbits in good characteristic. 86c:14035
 Springer, T. A. A purity result for fixed point varieties in flag manifolds. 86c:14034
 Zaidenberg, M. G. Rational actions of the group C^* on C^2 , their quasi-invariants and algebraic curves in C^2 with Euler characteristic 1. (Russian) 86c:14024

secondary classifications (14L30)

- Abeasis, S. (with Del Fra, A.) Degenerations for the representations of an equioriented quiver of type D_m . 86g:16039
 Akhiezer, D. N. Algebraic varieties that are symmetric in Borel's sense. (Russian) 86c:32037
 Actions with a finite number of orbits. (Russian) 86h:14044
 Almkvist, Gert Invariants of $\mathbb{Z}/p\mathbb{Z}$ in characteristic p . 86a:14005
 Baclawski, Kenneth (with Towber, Jacob) The shape-algebra and standard bases for G_2 . 86g:20054
 Białynicki-Birula, Andrzej (with Sommese, Andrew John) Quotients by $C^* \times C^*$ actions. 86j:32061
 Chen, Zhi Jie A classification of irreducible prehomogeneous vector spaces over an algebraically closed field of characteristic p . I. (Chinese) 86h:20059
 Del Fra, A. See Abeasis, S., 86g:16039
 Deodhar, Vinay V. Local Poincaré duality and nonsingularity of Schubert varieties. 86i:14015
 Fauntleroy, Amassa Geometric invariant theory for general algebraic groups. 86m:14008
 Fogarty, John See Mumford, David, 86a:14006
 Furushima, Mikio Finite groups of polynomial automorphisms in the complex affine plane. II. 86g:32048
 Happel, Dieter Relative invariants of quivers of tame type. 86g:16042
 Katsylo, P. I. Rationality of the moduli spaces of hyperelliptic curves. (Russian) 86i:14008
 Rationality of fields of invariants of reducible representations of the group SL_2 . (Russian) 86c:14009
 Khadshiev, Dzh. See Tursunov, B., 86a:20049
 Kirwan, Frances \star Cohomology of quotients in symplectic and algebraic geometry. 86i:58050
 Kraft, Hanspeter \star Geometrische Methoden in der Invariantentheorie. (German) [Geometrical methods in invariant theory] 86j:14006
 Mumford, David (with Fogarty, John) \star Geometric invariant theory. 86a:14006
 Sommese, Andrew John See Białynicki-Birula, Andrzej, 86j:32061
 Towber, Jacob See Baclawski, Kenneth, 86g:20054
 Tursunov, B. (with Khadshiev, Dzh.) The relation between the algebras of invariants of an algebraic group and its subgroup. (Russian) 86a:20049

14L32 Toric varieties, Newton polyhedra

- Klyachko, A. A. Demazure models for a special class of tori. 86c:14036

secondary classifications (14L32)

- Orbits of a maximal torus on a flag space. (Russian) 86c:14028
 Miranda, Rick Gorenstein toric threefolds with isolated singularities and cyclic divisor class group. 86f:14026
 Zucker, Steven M. Satake compactifications. 86c:32041

14L99 None of the above, but in this section

secondary classifications (14L99)

- Carlson, Jon F. The variety of an indecomposable module is connected. 86b:20009

14Mxx Special varieties

14M05 Varieties defined by ring conditions (factorial, Macaulay)

- Bresinsky, H. On the Cohen-Macaulay property for monomial curves in \mathbb{P}^3 . **86c:14037**
- Cavaliere, Maria Pia (with Niesi, Gianfranco) The equations of a monomial projective curve. (Italian. English summary) **86m:14035**
- Davis, Edward D. (with Geramita, A. V.; Orecchia, Ferruccio) Hilbert functions of linked varieties. **86h:14040**
- (with Geramita, A. V.; Orecchia, Ferruccio) Gorenstein algebras and the Cayley-Bacharach theorem. **86k:14034**
- Geramita, A. V. The equations defining arithmetically Cohen-Macaulay varieties of dimension ≥ 1 . **86h:14041**
- (with Maroscia, P.) The ideal of forms vanishing at a finite set of points in \mathbb{P}^n . **86c:14025**
- (with Weibel, C.) On the Cohen-Macaulay and Buchsbaum property for unions of planes in affine space. **86f:14032**
- See also Davis, Edward D. et al., **86h:14040** and **86k:14034**
- Maroscia, P. (with Vogel, Wolfgang) On the defining equations of points in general position in \mathbb{P}^n . **86a:14045**
- See also Geramita, A. V., **86c:14025**
- Niesi, Gianfranco See Cavaliere, Maria Pia, **86m:14035**
- Orecchia, Ferruccio See Davis, Edward D. et al., **86h:14040** and **86k:14034**
- Robbiano, Lorenzo Factorial and almost factorial schemes in weighted projective spaces. **86d:14046**
- Roberts, Joel (with Zaare Nahandi, Rahim) Transversality of generic projections and seminormality of the image hypersurfaces. **86c:14038**
- Sauer, Tim Codimension-two subvarieties of \mathbb{P}^n with the cohomology of a complete intersection. **86b:14021**
- Vogel, Wolfgang See Maroscia, P., **86a:14045**
- Weibel, C. See Geramita, A. V., **86f:14032**
- Zaare Nahandi, Rahim See Roberts, Joel, **86c:14038**

secondary classifications (14M05)

- Amasaki, Mutsami On the structure of arithmetically Buchsbaum curves in \mathbb{P}^3 . **86a:14027**
- Blass, Piotr Picard groups of Zariak surfaces. **86c:14014**
- Boratyński, M. Gorenstein algebras and symmetric forms. **86h:13020**
- Davis, Edward D. (with Geramita, A. V.; Maroscia, P.) Perfect homogeneous ideals: Dubreil's theorems revisited. (French summary) **86m:13024**
- Geramita, A. V. (with Maroscia, P.; Roberts, Leslie G.) The Hilbert function of a reduced K -algebra. **86g:13014**
- (with Maroscia, P.; Vogel, Wolfgang) On curves linked to lines in \mathbb{P}^3 . **86j:14029**
- See also Davis, Edward D. et al., **86m:13024**
- Giusti, M. (with Merle, M.) Singularités isolées et sections planes de variétés déterminantielles. II. Sections de variétés déterminantielles par les plans de coordonnées. [Isolated singularities and plane sections of determinantal varieties. II. Sections of determinantal varieties by the coordinate planes] **86c:32013**
- (Lang, Jeffrey) See Blass, Piotr, **86c:14014**
- Łojasiewicz, Stanisław Biholomorphismes des variétés grassmanniennes. [Biholomorphisms of Grassmann manifolds] **86f:32034**
- Lorenzini, Anna On the Betti numbers of the ideal of s points in \mathbb{P}^n . **86d:13015**
- Marinov, Vasil P. Perfection of ideals generated by the Pfaffians of an alternating matrix. II. **86f:13006**
- Maroscia, P. See Geramita, A. V. et al., **86g:13014**; **86j:14029** and Davis, Edward D. et al., **86m:13024**
- Merle, M. See Giusti, M., **86c:32013**
- Mora, Ferdinando A constructive characterization of standard bases. **86h:13019**
- Ngô Việt Trung Projections of one-dimensional Veronese varieties. **86c:14023**
- Roberts, Leslie G. See Geramita, A. V. et al., **86g:13014**
- Roggero, Margherita Rational factorial curves over an arbitrary field. (Italian. English summary) **86h:14027**
- Stückrad, Jürgen On the Buchsbaum property of Rees and form modules. **86h:13022**
- Vogel, Wolfgang See Geramita, A. V. et al., **86j:14029**

14M07 Low-codimension problems [See also 14Cxx.]

- Ballico, Edoardo (with Chiantini, Luca) On smooth subcanonical varieties of codimension 2 in \mathbb{P}^n , $n \geq 4$. **86d:14047**
- Chiantini, Luca See Ballico, Edoardo, **86d:14047**
- Ein, Lawrence Rank 2 vector bundles on projective spaces. **86d:14048**
- Holme, Audun (with Schneider, Michael) A computer aided approach to codimension 2 subvarieties of \mathbb{P}_n , $n \geq 6$. **86m:14036**
- Schneider, Michael See Holme, Audun, **86m:14036**

secondary classifications (14M07)

- Ballico, Edoardo On the postulation of canonical curves in \mathbb{P}^3 . **86a:14028**
- Florentini, Mario (with Lasu, Alexandru T.) Quasi-complete intersection projective varieties. (Italian) **86d:14050**
- Idà, Monica A characterization of the cubic hypersurfaces of \mathbb{P}^{n+1} . (Italian) **86a:14003**
- Ignatenko, V. F. Some applications of the diametral theory of an algebraic surface in the space E^m . (Russian) **86d:14054**
- Lasu, Alexandru T. See Florentini, Mario, **86d:14050**
- Okonek, Christian Über 2-codimensionale Untermannigfaltigkeiten vom Grad 7 in \mathbb{P}^4 und \mathbb{P}^5 . [On 2-codimensional submanifolds of degree 7 in \mathbb{P}^4 and \mathbb{P}^5] **86a:14035**

14M10 Complete intersections

- Boratyński, M. Poincaré forms, Gorenstein algebras and set theoretic complete intersections. **86i:14014**
- Chiantini, Luca (with Valabrega, Paolo) Subcanonical curves and complete intersections in projective 3-space. (Italian summary) **86k:14035**
- Ciliberto, Ciro On the Euler-Poincaré characteristic of complete intersections in \mathbb{CP}^r with isolated singularities. (Italian summary) **86j:14048**
- Davis, Edward D. (with Maroscia, P.) Complete intersections in \mathbb{P}^2 : Cayley-Bacharach characterizations. **86d:14049**
- On a theorem of Beniamino Segre. **86g:14027**
- Del Centina, Andrea (with Gimigliano, Alessandro) Curves on rational and elliptic normal cones which are set theoretically complete intersection. **86c:14039**
- Eliashov, Shalom Idéaux de définition des courbes monomiales. [Ideals of definition of monomial curves] **86c:14040**
- Florentini, Mario (with Lasu, Alexandru T.) On the homogeneous ideal of a quasicomplete intersection in the projective space. (Italian summary) **86a:14046**
- (with Lasu, Alexandru T.) Quasi-complete intersection projective varieties. (Italian) **86d:14050**
- Gattasso, Remo In characteristic $p = 2$ the Veronese variety $V^m \subset \mathbb{P}^{m(m+3)/2}$ and each of its generic projections is a set-theoretic complete intersection. **86d:14051**
- Gimigliano, Alessandro See Del Centina, Andrea, **86c:14039**
- Greco, Silvio (with Valabrega, Paolo) On the singular locus of a general complete intersection through a variety in projective space. **86j:14049**
- Guillén Santos, F. (with Pascual Gaiña, Pere) Intersection of Gorenstein germs in codimension three. (Catalan. English summary) (See **86g:00012a**)
- Lasu, Alexandru T. See Florentini, Mario, **86a:14046** and **86d:14050**
- Manaresi, Mirella Nilpotent structures of multiplicity two on singular curves. (Italian) **86a:14047**
- Marinari, M. G. (with Raimondo, Mario) On complete intersection real curves. **86c:14041**
- Maroscia, P. See Davis, Edward D., **86d:14049**
- Moh, T. T. Set-theoretic complete intersections. **86c:14026**
- Pascual Gaiña, Pere See Guillén Santos, F., (**86g:00012a**)
- Raimondo, Mario See Marinari, M. G., **86c:14041**
- Rung, Josef ★ Mengentheoretische Durchschnitte und Zusammenhang. (German) [Set-theoretic intersections and connectedness] **86j:14050**
- Sauer, Tim A note on the Cayley-Bacharach property. **86k:14038**
- Valabrega, Paolo See Greco, Silvio, **86j:14049** and Chiantini, Luca, **86k:14035**
- Valla, Giuseppe On set-theoretic complete intersections. **86f:14033**
- Weibel, C. Complete intersection points on affine varieties. **86b:14022**

secondary classifications (14M10)

- Ballico, Edoardo (with Chiantini, Luca) On smooth subcanonical varieties of codimension 2 in \mathbb{P}^n , $n \geq 4$. **86d:14047**
- Chiantini, Luca (with Valabrega, Paolo) Some properties of subcanonical curves. **86i:14009**
- See also Ballico, Edoardo, **86d:14047**
- Davis, Edward D. (with Geramita, A. V.; Orecchia, Ferruccio) Gorenstein algebras and the Cayley-Bacharach theorem. **86k:14034**
- Doretti, Lucia A note on the flat inductive limit of \mathcal{P} -rings. (Italian. English summary) **86h:13021**
- Forster, Otto Complete intersections in affine algebraic varieties and Stein spaces. **86h:32027**
- Geramita, A. V. See Davis, Edward D. et al., **86k:14034**
- Granger, Michel Géométrie des schémas de Hilbert ponctuels. (English summary) [Geometry of punctual Hilbert schemes] **86d:14004**
- Harris, Joseph Daniel (with Hulek, K.) On the normal bundle of curves on complete intersection surfaces. **86j:14030**
- Holme, Audun (with Schneider, Michael) A computer aided approach to codimension 2 subvarieties of \mathbb{P}_n , $n \geq 6$. **86m:14036**
- Hulek, K. See Harris, Joseph Daniel, **86j:14030**
- Nakajima, Haruhisa (with Watanabe, Keiichi) The classification of quotient singularities which are complete intersections. **86c:14002**
- Quotient singularities which are complete intersections. **86h:14039**
- Orecchia, Ferruccio See Davis, Edward D. et al., **86k:14034**
- Ronconi, M. C. Fourth-order monoidal surfaces of \mathbb{P}^3 with set-theoretic complete intersection curves. (Italian. English summary) **86d:14034**
- Sauer, Tim Codimension-two subvarieties of \mathbb{P}^n with the cohomology of a complete intersection. **86b:14021**
- Schneider, Michael See Holme, Audun, **86m:14036**
- Terasoma, Tomohide Complete intersections with middle Picard number 1 defined over \mathbb{Q} . **86f:14010**
- Valabrega, Paolo See Chiantini, Luca, **86i:14009**
- Watanabe, Keiichi See Nakajima, Haruhisa, **86c:14002**

14M12 Determinantal varieties

- Giusti, M. (with Merle, M.) Singularités isolées et sections planes de variétés déterminantielles. II. Sections de variétés déterminantielles par les plans de coordonnées. [Isolated singularities and plane sections of determinantal varieties. II. Sections of determinantal varieties by the coordinate planes] **86c:32013**
- Merle, M. See Giusti, M., **86c:32013**
- secondary classifications (14M12)
- Alekseev, V. N. Linear systems of collineations and null-systems of projective spaces. (Russian) **86h:14006**
- Artale, Maria On the resolution of the cokernel of the generic map induced between Schur functors corresponding to a partition. **86g:13005**

- Bruna, Winfried The existence of generic free resolutions and related objects. **86d:13016**
- Fried, M. (with Smith, John Howard) Irreducible discriminant components of coefficient spaces. **86g:14006**
- Fröberg, R. (with Laksov, D.) Compressed algebras. **86f:13012**
- Giusti, M. (with Merle, M.) Singularités isolées et sections planes de variétés déterminantielles. I. Singularités isolées et nœuds de Newton. [Isolated singularities and plane sections of determinantal varieties. I. Isolated singularities and Newton clouds] **86e:32012**
- Harris, Joseph Daniel (with Tu, Loring W.) Chern numbers of kernel and cokernel bundles. **86j:14025**
- Laksov, D. See Fröberg, R., **86f:13012**
- Marinov, Vasil P. Perfection of ideals generated by the Pfaffians of an alternating matrix. II. **86f:13006**
- Merle, M. See Giusti, M., **86e:32012**
- Smith, John Howard See Fried, M., **86g:14006**
- Tu, Loring W. See Harris, Joseph Daniel, **86j:14025**

14M15 Grassmannians, Schubert varieties [See also 51M35.]

- Akyildiz, Ersan Gysin homomorphism and Schubert calculus. **86d:14053**
- Andersen, Henning Haahr Schubert varieties and Demazure's character formula. **86h:14042**
- Deodhar, Vinay V. Local Poincaré duality and nonsingularity of Schubert varieties. **86i:14015**
- Giannakopoulos, C. (with Kalogeropoulos, Grigoris; Karcanas, N.) The Grassmann variety of nondynamic compensators: the determinantal assignment problem of linear systems. **86k:14037**
- Huneke, C. (with Lakshmibai, V.) A characterization of Kempf varieties by means of standard monomials and the geometric consequences. **86i:14016**
- Kalogeropoulos, Grigoris See Giannakopoulos, C. et al., **86k:14037**
- Karcanas, N. See Giannakopoulos, C. et al., **86k:14037**
- Lakshmibai, V. See Huneke, C., **86i:14016**
- Lascoux, Alain Caractéristique d'Euler-Poincaré et produit des caractères. (English summary) [Euler-Poincaré characteristics and product of characters] **86h:14043**
- Mehta, V. B. (with Ramanathan, A.) Frobenius splitting and cohomology vanishing for Schubert varieties. **86k:14038**
- Papantoniopolou, A. Corrigendum to: "Surfaces in the Grassmann variety $G(1,3)$ " [Proc. Amer. Math. Soc. 77 (1979), no. 1, 15-18; MR 80j:14045]. **86m:14037**
- Ramanan, S. (with Ramanathan, A.) Projective normality of flag varieties and Schubert varieties. **86j:14051**
- Ramanathan, A. See Ramanan, S., **86j:14051** and Mehta, V. B., **86k:14038**
- Tango, Hiroshi On morphisms from projective space P^n to the Grassmann variety $Gr(n, d)$. II. **86a:14048**
- Zelevinskii, A. V. Two remarks on graded nilpotent classes. (Russian) **86e:14027**

secondary classifications (14M15)

- Björner, Anders Orderings of Coxeter groups. **86i:05024**
- Guyot, M. Caractérisation par l'uniformité des fibrés universels sur la grassmannienne. [Characterization of universal bundles on Grassmannians based on the uniform structure] **86a:14012**
- Kashiwara, Masaki (with Tanisaki, T.) The characteristic cycles of holonomic systems on a flag manifold related to the Weyl group algebra. **86m:17015**
- Klyachko, A. A. Orbits of a maximal torus on a flag space. (Russian) **86e:14028**
- Kumar, Shrawan Geometry of Schubert cells and cohomology of Kac-Moody Lie-algebras. **86j:17026**
- Lancaster, Glenn (with Towber, Jacob) Representation-functors and flag-algebras for the classical groups. II. **86i:20037**
- Lejaślewicz, Stanisław Biholomorphismes des variétés grassmanniennes. [Biholomorphismes of Grassmann manifolds] **86f:32034**
- Sois Lucía, Ignacio On spinor bundles. **86d:14014**
- Springer, T. A. Some results on algebraic groups with involutions. **86m:20050**
- Tanisaki, T. See Kashiwara, Masaki, **86m:17015**
- Towber, Jacob See Lancaster, Glenn, **86i:20037**

14M17 Homogeneous spaces [See also 32M10, 53C30, 57T15.]

- Akhieser, D. N. Actions with a finite number of orbits. (Russian) **86h:14044**
- Klyachko, A. A. Orbits of a maximal torus on a flag space. (Russian) **86e:14028**
- Nisnevich, E. A. Espaces homogènes principaux rationnellement triviaux et arithmétique des schémas en groupes réductifs sur les anneaux de Dedekind. (English summary) [Rationally trivial principal homogeneous spaces and arithmetic of reductive group schemes over Dedekind rings] **86f:14034**

secondary classifications (14M17)

- Arabla, Alberto Cycles de Schubert et cohomologie équivariante de K/T . (English summary) [Schubert cycles and equivariant cohomology of K/T] **86m:32048**
- Bacławski, Kenneth (with Towber, Jacob) The shape-algebra and standard bases for G_2 . **86g:20054**
- Haboush, W. Brauer groups of homogeneous spaces. I. **86j:14047**
- Humphreys, J. E. On the structure of Weyl modules. **86f:20043**
- James, Donald G. On the geometry of symmetric and alternating forms. **86a:20050**
- Paauw, Frans Sur les espaces homogènes de complication nulle. (English summary) [Homogeneous spaces of "complication zero"] **86j:20040**
- Towber, Jacob See Bacławski, Kenneth, **86g:20054**
- Yüan, Hsi Shih Homogeneous vector bundles over projective varieties. **86c:14015**

14M20 Rational varieties

secondary classifications (14M20)

- Kataylo, P. I. Rationality of the moduli spaces of hyperelliptic curves. (Russian) **86c:14008**
- Robbiano, Lorenzo Factorial and almost factorial schemes in weighted projective spaces. **86d:14046**

14M99 None of the above, but in this section

- Smyth, Brian (with Sommese, Andrew John) On the degree of the Gauss mapping of a submanifold of an abelian variety. **86a:14049**
- Sommese, Andrew John See Smyth, Brian, **86a:14049**

secondary classifications (14M99)

- Hibi, Takayuki (with Watanabe, Keiichi) Study of three-dimensional algebras with straightening laws which are Gorenstein domains. I. **86g:13011**
- L'vovskii, S. M. Criterion for the nonrepresentability of a variety as a hyperplane section. (Russian) **86m:14012**
- Morgan, John W. (with Shalen, Peter) Valuations, trees, and degenerations of hyperbolic structures. I. **86f:57011**
- Shalen, Peter See Morgan, John W., **86f:57011**
- Watanabe, Keiichi See Hibi, Takayuki, **86g:13011**

14Nxx Classical methods and problems [See also 51-XX.]

14N05 Projective techniques

- Apostolova, M. P. A hyperquintic in P_4 , obtained by stereographic projection of a quadric on a plane. (Bulgarian. English and Russian summaries) **86d:14063**
- Degoli, Lando Some theorems on linear systems of quadrics with identically zero Jacobian. (Italian) **86i:14017**
- Ignatyev, V. F. Some applications of the diametral theory of an algebraic surface in the space E^m . (Russian) **86d:14054**
- Klucky, Dalibor (with Marková, Libuše) A contribution to the theory of tacnodal quartics. (Czech summary) **86f:14035**
- Marková, Libuše See Klucky, Dalibor, **86f:14035**
- Piense, Ragni (with Sacchiero, Gianni) Duality for rational normal scrolls. **86c:14042**
- Sacchiero, Gianni See Piense, Ragni, **86c:14042**
- Vujaković, Dušan A ruled surface whose generators are bisecants of a 3rd order space curve, and whose directrix is a conic section. (Russian. Serbo-Croatian summary) **86b:14023**
- Wood, Jay A. Osculation by algebraic hypersurfaces. **86a:14029**

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- Apostolova, M. P. Some problems in the mapping of P_3 on a plane by bisecant congruence of the normcurve C^3 . (Bulgarian. English and Russian summaries) **86e:51036**
- Ballico, Edoardo On the rationality of the variety of smooth rational space curves with fixed degree and normal bundle. **86a:14021**
- Bottema, O. (with Veldkamp, G. R.) A linear complex of conics. (Dutch) **86a:51045**
- Ciliberto, Ciro (with Ghione, Franco) Algebraic series of divisors on a curve and on a surface. (Italian. English summary) **86b:14003**
- Di Fiore, Lora (with Freni Casale, Sveva) Some properties of Segre varieties. (Italian. English summary) **86e:51033**
- Fidal, D. L. The existence of sextactic points. **86c:53002**
- Freni Casale, Sveva See Di Fiore, Lora, **86e:51033**
- Ghione, Franco See Ciliberto, Ciro, **86b:14003**
- Griffin, Edmond E., II The component structure of W_2^2 . **86j:14023**
- Hughston, L. P. (with Hurd, T. R.) A CP^2 calculus for space-time fields. **86c:51037**
- Hurd, T. R. The projective geometry of simple cosmological models. **86i:53047**
- See also Hughston, L. P., **86c:51037**
- Kaczmarek, Jerzy On a certain property of the pencil of plane curves of the n th order with a singular point of multiplicity $(n-1)$. **86e:14013**
- Knitter, Konrad Suites périodiques des antipolarités. [Periodic sequences of antipolarities] **86f:51029**
- Lanteri, Antonio (with Palleschi, Marino) A characteristic condition for an algebraic variety to be a scroll. (Italian summary) **86f:14027**
- Łoskiewicz, Genowefa Własności zbioru płaszczyzn polarnych punktu względem rodziny kwadratów. [Properties of the set of polar planes of a point with respect to the quadrics of the pencil of ruled quadrics] **86m:51031**
- Palleschi, Marino See Lanteri, Antonio, **86f:14027**
- Shpis, G. B. Projective geometry on algebraic varieties. (Russian) **86m:51023**
- Stanilova, L. R. Investigation of a collineation group preserving a three-dimensional cubic in a five-dimensional projective space. (Bulgarian. English and Russian summaries) **86f:51030**
- Sterz, Ulrich Berührungsvervollständigung für ebene Kurven dritter Ordnung. II. Konstruktion einer Vervollständigung durch Aufblasungen. [Contact completion for plane curves of third order. II. Construction of a completion by dilatations] **86g:51049**
- Su, Bu Qing ★ The general projective theory of curves. **86i:53010**
- Syarova, A. B. Mapping of the space P_4 onto a hyperplane by means of a quadratic involution. (Bulgarian. English and Russian summaries) **86g:51044**
- Veldkamp, G. R. See Bottema, O., **86a:51045**

14N10 Enumerative problems

- De Concini, Corrado (with Gianni, Patrizia; Traverso, Carlo) Computation of new Schubert tables for quadrics and projectivities. 86m:14038
 Gianni, Patrizia See De Concini, Corrado et al., 86m:14038
 Pione, Ragni On the problem of enumerating twisted cubics. 86m:14039
 Ran, Ziv Curvilinear enumerative geometry. 86m:14040
 Traverso, Carlo See De Concini, Corrado et al., 86m:14038

secondary classifications (14N10)

- Banchoff, Thomas F. (with Gaffney, Terence; McCrory, Clint) Counting tritangent planes of space curves. 86m:58028a
 Gaffney, Terence See Banchoff, Thomas F. et al., 86m:58028a
 Harris, Joseph Daniel On the Kodaira dimension of the moduli space of curves. II. The even-genus case. 86j:14024
 Kulkov, V. S. The number of singular focal centers of projection of an algebraic surface. (Russian) 86b:14016
 Lange, Herbert Höhere Sekantenvarietäten und Vektorbündel auf Kurven. (English summary) [Higher secant varieties and vector bundles on curves] 86h:14010
 McCrory, Clint See Banchoff, Thomas F. et al., 86m:58028a
 Ozawa, Tetsuya The numbers of triple tangencies of smooth space curves. 86m:58028b

14N99 None of the above, but in this section

secondary classifications (14N99)

- Beretta, Lucia A Bézout theorem in real algebraic geometry. (Italian) 86g:14012

15-XX LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY (finite and infinite)

secondary classifications (15-XX)

- Courtois, P.-J. (with Semal, P.) Bounds for the positive eigenvectors of nonnegative matrices and for their approximations by decomposition. (Not in MR)
 Semal, P. See Courtois, P.-J. (Not in MR)

15-00 Handbooks, dictionaries, and other reference works

- Gaines, Fergus J. (with Laffey, Thomas J.) Report on the Dublin Matrix Theory Conference, March 1984. 86e:15001
 Laffey, Thomas J. See Gaines, Fergus J., 86e:15001

15-01 Elementary exposition; textbooks

- Falk, S. See Zurmühl, Rudolf, 86a:15002
 Fekete, A. E. ★ Real linear algebra. 86h:15001
 Kaczorek, Tadeusz ★ Macierze w automatyce i elektrotechnice. (Polish) [Matrices in automation and electrical engineering] 86b:15001
 Kall, Peter ★ Lineare Algebra für Ökonomen. (German) [Linear algebra for economists] 86d:15001
 Klingenberg, Wilhelm ★ Lineare Algebra und Geometrie. (German) [Linear algebra and geometry] 86a:15001
 Proskuryakov, I. V. ★ Problems in linear algebra. 86e:15002
 Walter, Rolf ★ Lineare Algebra und analytische Geometrie. (German) [Linear algebra and analytic geometry] 86h:15002
 (Yankovskii, G.) See Proskuryakov, I. V., 86e:15002
 Zurmühl, Rudolf (with Falk, S.) ★ Matrizen und ihre Anwendungen für angewandte Mathematiker, Physiker und Ingenieure. Teil 1. (German) [Matrices and their applications for applied mathematicians, physicists and engineers. Part 1] 86a:15002

secondary classifications (15-01)

- Barnett, S. ★ Matrices in control theory. 86a:93001
 Bobkov, V. V. See Krylov, V. I. et al., 86m:65004
 González de Posada, F. ★ Estructuras algebraicas tensoriales. (Spanish) [Tensor algebra structures] 86e:15027
 Krylov, V. I. (with Bobkov, V. V.; Monastyrnyi, P. I.) ★ Начала теории вычислительных методов. Линейная алгебра и нелинейные уравнения. (Russian) [The beginnings of the theory of numerical methods. Linear algebra and nonlinear equations] 86m:65004
 Lang, Serge ★ Algebra. 86j:00003
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 Monastyrnyi, P. I. See Krylov, V. I. et al., 86m:65004
 Northcott, D. G. ★ Multilinear algebra. 86m:15001
 Strubecker, Karl ★ Einführung in die höhere Mathematik mit besonderer Berücksichtigung ihrer Anwendungen auf Geometrie, Physik, Naturwissenschaften und Technik. Band IV. (German) [Introduction to higher mathematics with special reference to its applications in geometry, physics, the natural sciences and engineering. Vol. IV] 86k:00004

15-02 Advanced exposition (research surveys, monographs, etc.)

secondary classifications (15-02)

- Artin, Emil ★ Algèbre géométrique. (French) [Geometric algebra] 86b:51002
 Griggs, Jerrold R. The Sperner property. (French summary) 86i:06006

- Hill, Richard D. (with Underwood, E. Eugene) On the matrix adjoint (adjugate). 86k:15001
 (Julia, G.) See Artin, Emil, 86b:51002
 (Lasard, M.) See Artin, Emil, 86b:51002
 Stanley, Richard P. $GL(n, C)$ for combinatorialists. 86b:05004
 Underwood, E. Eugene See Hill, Richard D., 86k:15001

15-03 Historical (must also be assigned at least one classification number from Section 01)

secondary classifications (15-03)

- Minc, Henryk The van der Waerden permanent conjecture. 86j:15003
 Nield, D. A. Segar's theorem. 86c:01033
 Ostrowski, Alexander ★ Collected mathematical papers. Vol. 1. 86m:01075a
 ★ Collected mathematical papers. Vol. 2. 86m:01075b

15-04 Explicit machine computation and programs (not the theory of computation or programming)

secondary classifications (15-04)

- Alekseev, V. B. On the complexity of some algorithms of matrix multiplication. 86g:68070
 Pan, V. The techniques of trilinear aggregating and the recent progress in the asymptotic acceleration of matrix operations. 86j:68054
 Pisanetsky, Sergio ★ Sparse matrix technology. 86j:65003

15A03 Vector spaces, linear dependence, rank

- Al'pin, Yu. A. The rank of a Hankel matrix. (Russian) 86m:15001
 Beasley, LeRoy B. (with Gregory, D. A.; Pullman, N. J.) Nonnegative rank-preserving operators. 86b:15002
 Brd, R. (with Mas, J.) Extension of a maximal system of eigenvectors with Jordan bases of complex vector spaces. (Spanish. English summary) 86j:15001
 Gregory, D. A. See Beasley, LeRoy B. et al., 86b:15002
 Mas, J. See Brd, R., 86j:15001
 Masuyama, Motoaburo A test of linear independency of n vectors. 86a:15003
 Pullman, N. J. See Beasley, LeRoy B. et al., 86b:15002
 Styan, G. P. H. (with Takemura, Akimichi) Rank additivity and matrix polynomials. 86e:15003
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 Tu, Bo Xun A lower bound for the rank of a matrix and sufficient conditions for nonsingularity of a matrix. II. (Chinese. English summary) 86m:15002

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- Babaev, È. A. On relations of categories of linear spaces and semigroups. (Russian. English and Azerbaijani summaries) 86j:18006
 Barankin, Edward W. (with Takahasi, Koiti) Betweenness for real vectors and lines. III. Alternative characterizations of betweenness. 86m:06006
 Burtman, M. I. Congruences on the Menger algebra of linear mappings. (Russian. English and Azerbaijani summaries) 86f:08003
 Charnow, A. (with Charnow, E.) On transcendental linear operators. 86e:15004
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 Collings, Bruce Jay Generating the intrablock and interblock subgroups for confounding in general factorial experiments. 86c:62096
 Demetrovics, János (with Füredi, Zoltán; Katona, Gyula) Minimum matrix representation of closure operations. 86k:05002
 Füredi, Zoltán See Demetrovics, János et al., 86k:05002
 Grubb, A. See Nicholson, G. E. et al., 86h:06024
 Harper, L. H. Morphisms for the strong Sperner property of Stanley and Griggs. 86d:05005
 Herzhkowitz, Daniel (with Schneider, Hans) Scalings of vector spaces and the uniqueness of Lyapunov scaling factors. 86j:15009
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 Note on the standard matrix representation of a matroid. (Serbo-Croatian summary) 86f:05047
 Nicholson, G. E. (with Grubb, A.; Sharma, C. S.) Regular join endomorphisms on a complemented modular lattice of finite rank. 86h:06024
 Saaty, Thomas L. (with Vargas, Luis G.) Inconsistency and rank preservation. 86f:65073
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 Takahasi, Koiti See Barankin, Edward W., 86m:06006
 Vargas, Luis G. See Saaty, Thomas L., 86f:65073

15A04 Linear transformations, semilinear transformations

- Charnow, A. (with Charnow, E.) On transcendental linear operators. 86e:15004
 Charnow, E. See Charnow, A., 86e:15004

secondary classifications (15A04)

- Beasley, LeRoy B. (with Gregory, D. A.; Pullman, N. J.) Nonnegative rank-preserving operators. 86b:15002
 Burtman, M. I. Congruences on the Menger algebra of linear mappings. (Russian. English and Azerbaijani summaries) 86f:08003
 Gregory, D. A. See Beasley, LeRoy B. et al., 86b:15002
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15A06 Linear equations

- Jain, Surender Kumar (with Snyder, L. E.) Linear systems having nonnegative least squares solution. **86g:15001**
- Klee, Victor (with Ladner, Richard; Manber, Rachel) Sign-solvability revisited. **86a:15004**
- Ladner, Richard See Klee, Victor et al., **86a:15004**
- Manber, Rachel See Klee, Victor et al., **86a:15004**
- Snyder, L. E. See Jain, Surender Kumar, **86g:15001**
- Victory, H. D., Jr. On nonnegative solutions of matrix equations. **86h:15003**

secondary classifications (15A06)

- Adkins, William A. The pointwise-local-global principle for solutions of generic linear equations. **86c:13018**
- Butković, P. (with Hegedüs, Gábor) An elimination method for finding all solutions of the system of linear equations over an extremal algebra. (Slovak summary) **86j:90121** (with Hevery, Ferdinand) A condition for the strong regularity of matrices in the minimax algebra. **86i:15008**
- Chan, Tony F. Deflated decomposition of solutions of nearly singular systems. **86a:65029**
- Evans, David J. On the solution of certain Toeplitz quindagonal linear systems. **86g:65059**
- Gunsburger, M. D. (with Nicolaides, R. A.) Elimination with noninvertible pivots. **86d:65043**
- Haq, S. Generalised overrelaxation method for solution of linear equations. **86g:65069**
- Hegedüs, Gábor See Butković, P., **86j:90121**
- Hevery, Ferdinand See Butković, P., **86i:15008**
- Il'in, V. P. Superimplicit iteration methods for solving systems of equations with block tridiagonal matrices. (Russian) **86g:65070**
- Kaykobad, M. Positive solutions of positive linear systems. **86e:92026**
- Lobshanskiĭ, G. B. An approach to the solution of systems of linear algebraic equations. (Russian. English and Georgian summaries) **86f:65060**
- Nicolaides, R. A. See Gunsburger, M. D., **86d:65043**
- Smarandache, Florentin Gh. General solution properties in whole numbers for linear equations. (Romanian summary) **86b:90093**
- Streit, Roy L. Saddle points and overdetermined complex equations. **86g:41043**
- Sun, Wen Yu. Cramer's rules for solution of consistent linear equations and for least-squares solution of inconsistent linear equations. (Not in MR)

15A09 Matrix inversion, generalized inverses

- Deng, Wei Cai. The generalized inverse of a 2×2 partitioned matrix. (Chinese. English summary) **86g:15002**
- Dobryakov, L. D. Commuting generalized inverse matrices. (Russian) **86a:15005**
- Heinig, Georg (with Rost, Karla) Fast inversion of Toeplitz-plus-Hankel matrices. **86m:15003**
- Huylebrouck, D. (with Puystjens, R.; Van Geel, J.) The Moore-Penrose inverse of a matrix over a semisimple Artinian ring. **86g:15003**
- Jagnow, Ingrid Zur Invertierung tetradiaagonaler Toeplitz-scher Matrizen. [On the inversion of tetradiaagonal Toeplitz matrices] **86a:15006**
- Johnson, Charles R. Sign patterns of inverse nonnegative matrices. **86i:15001**
- Kolotilina, L. Yu. Some structural properties of inverse matrices. (Russian) **86j:15002**
- Mathew, Thomas See Puri, Madan L. et al., **86i:15002**
- Mohan, Srinivasa Raghavan See Ramamurthy, K. G., **86b:15003**
- Nwokah, O. D. I. Composite matrix inverses and generalized Gershgorin sets. **86i:15001**
- Pupkov, V. A. Some sufficient conditions for the nondegeneracy of matrices. (Russian) **86c:15002**
- Puri, Madan L. (with Russell, Carl T.; Mathew, Thomas) Convergence of generalized inverses with applications to asymptotic hypothesis testing. **86i:15002**
- Puystjens, R. See Huylebrouck, D. et al., **86g:15003**
- Ramamurthy, K. G. (with Mohan, Srinivasa Raghavan) Nonnegativity of principal minors of generalised inverses of P_0 -matrices. **86b:15003**
- Rao, Calyampuli Radhakrishna (with Yanai, Haruo) Generalized inverse of linear transformations: a geometric approach. **86h:15004**
- Rost, Karla See Heinig, Georg, **86m:15003**
- Russell, Carl T. See Puri, Madan L. et al., **86i:15002**
- Singh, S. Nabachandra Generalized inverses of matrices of index zero or one over a division ring. (Not in MR)
- Van Geel, J. See Huylebrouck, D. et al., **86g:15003**
- Wiener, Gerry Some results concerning invertible Morishima and anti-Morishima matrices whose associated digraphs are trees. **86i:15003**
- Yanai, Haruo See Rao, Calyampuli Radhakrishna, **86h:15004**

secondary classifications (15A09)

- Adomian, George A. (with Rach, R.) Application of the decomposition method to inversion of matrices. **86m:93093**
- Balk, Seung Il See Kim, Jin Bai, **86m:15012b**
- Barnett, S. See Gover, M. J. C., **86f:65056** and **86h:15019**
- Berg, Lothar Über die Greensche Funktion und die reduzierte Wronskische Determinante. [On the Green function and the reduced Wronski determinant] **86g:39004**
- Catchpole, E. A. Generalized inverses in block designs. **86i:62157**
- Eisnberg, A. (with Picardi, C.) On the inversion of Vandermonde matrix. **86c:65033**
- Evangelatos, D. S. (with Nicholson, H.) Graph theoretic structure of the matrix inverse relating to large-scale systems. **86a:93028**
- Gaffka, Norbert Directional derivatives of optimality criteria and singular matrices in convex design theory. **86i:62122**
- Gover, M. J. C. (with Barnett, S.) Generating polynomials for matrices with Toeplitz or conjugate-Toeplitz inverses. **86h:15019** (with Barnett, S.) Inversion of Toeplitz matrices which are not strongly nonsingular. **86f:65056**

Hanson, Robert Self-inverse integer matrices. **86k:15010**Havéril, Maddida Formulae for general reproductive solutions of certain matrix equations. **86b:15017**He, Xu Chu Singularity, ill-conditionedness and related problems. (Chinese. English summary) **86b:65035**Heinig, Georg (with Rost, Karla) Invertierung von Toeplitzmatrizen und ihren Verallgemeinerungen. I. Die Methode der UV-Reduktion. [Inversion of Toeplitz matrices and their generalizations. I. The method of UV-reduction] **86j:65034**(with Rost, Karla) Schnelle Invertierungsalgorithmen für einige Klassen von Matrizen. [Fast inversion algorithms for some classes of matrices] **86h:65036**Holland, Finbarr Shipley's algorithm for inverting matrices. **86a:65027**Imam, I. N. The Schur complement and the inverse M -matrix problem. **86b:15021**Keller-McNulty, S. (with Kennedy, W. J.) Error-free computation of a reflexive generalized inverse. **86h:65054**Kennedy, W. J. See Keller-McNulty, S., **86h:65054**Khodzaev, N. D. See Sudakov, R. S., **86h:15009**Kim, Jin Bai Idempotents and inverses in fuzzy matrices. **86h:15024**Inverses of Boolean matrices. **86m:15012a**(with Balk, Seung Il) A note about inverses of Boolean matrices. **86m:15012b**McCloskey, Joseph P. Properties of normal, r -potent matrices. **86m:15010**Nicholson, H. See Evangelatos, D. S., **86h:15009**Picardi, C. See Eisnberg, A., **86c:65033**

- Menon, K. V. A determinant of symmetric forms. **86b:15007**
- Merris, Russell (with Watkins, William Earl) Inequalities and identities for generalized matrix functions. **86e:15007**
- Minc, Henryk The van der Waerden permanent conjecture. **86j:15003**
- Miranda, Maria Emilia Fernandes On the trace of the product and the determinant of the sum of complex matrices with prescribed singular values. **86a:15011**
- Mühlbach, G. (with Gasca, Mariano) A generalization of Sylvester's identity on determinants and some applications. **86b:15006**
- Mukhopadhyay, Ashish On the probability that the determinant of an $n \times n$ matrix over a finite field vanishes. **86a:15012**
- Panov, A. A. The signature and kernel of a bilinear form connected with a permanent. (Russian) **86d:15003**
Mixed discriminants connected with positive semidefinite quadratic forms. (Russian) **86j:15004**
- Papick, Ira J. See Chicone, Carmen et al., **86b:15006**
- Salomón, Peter See Donald, John et al., **86f:15001a** and **86f:15001b**
- Schrijver, A. Bounds on permanents, and the number of 1-factors and 1-factorizations of bipartite graphs. **86b:15008**
- Seifter, Norbert Upper bounds for permanents of $(1, -1)$ -matrices. **86b:15009**
- Sinkhorn, Richard A problem related to the van der Waerden permanent theorem. **86e:15008**
- Underwood, E. Eugene See Hill, Richard D., **86k:15001**
- Vere-Jones, D. An identity involving permanents. **86f:15002**
- Watkins, William Earl See Merris, Russell, **86e:15007**
- Yakubovich, D. V. An algorithm for completing a rectangular polynomial matrix into a square matrix with a given determinant. (Russian) **86b:15010**
- secondary classifications (15A15)
- Backhouse, N. B. (with Fellouris, A. G.) On the superdeterminant function for supermatrices. **86c:58014**
- Deift, P. (with Tomei, C.) On the determinant of the adjacency matrix for a planar sublattice. **86b:05050**
- van den Driessche, P. See Johnson, Charles R. et al., **86b:15022**
- Drucker, Daniel S. See Greenfield, Gary R., **86c:12005**
- Fellouris, A. G. See Backhouse, N. B., **86c:58014**
- Girko, V. L. (with Litvin, I. N.) Integral representation of hyperdeterminants and its application to the study of the stability of stochastic systems. (Russian) **86c:93121**
- Goulden, I. P. (with Jackson, D. M.) Ballot sequences and a determinant of Good's. **86m:05011**
- Greenfield, Gary R. (with Drucker, Daniel S.) On the discriminant of a trinomial. **86c:12005**
- Grunenfelder, Lúsius (with Paré, Robert; Radjavi, Heydar) On a commutator theorem of Robert C. Thompson. **86a:15020**
- Jackson, D. M. See Goulden, I. P., **86m:05011**
- Jia, Rong Qing On the sign regularity of translated kernels. (Chinese) **86b:41025**
- Johnson, Charles R. (with Oleksy, D. D.; van den Driessche, P.) M -matrix products having positive principal minors. **86b:15022**
- Kishka, Zeinhom See Sayyed, Kamel, **86k:15014**
- Kowalsky, Hans-Joachim Zum Fundamentalsatz der Algebra. [On the fundamental theorem of algebra] **86d:12004**
- Lascoux, Alain (with Pragacz, Piotr) Équations et fonctions de Schur. (English summary) [Hooks and skew Schur functions] **86k:20008**
- Litvin, I. N. See Girko, V. L., **86c:93121**
- Manley, P. L. Determinant invariance of partition matrices. **86b:15014**
- Mehrman, Volker On a generalized Fan inequality. **86a:15023**
- Nield, D. A. Segar's theorem. **86c:01033**
- Oleksy, D. D. See Johnson, Charles R. et al., **86b:15022**
- Orzech, Grace Several versions of the resultant of two polynomials. **86f:12004**
- Paré, Robert See Grunenfelder, Lúsius et al., **86a:15020**
- Pragacz, Piotr See Lascoux, Alain, **86k:20008**
- Qian, Cheng See Qian, Min Ping et al., **86c:80104**
- Qian, Min Ping See Qian, Min Ping et al., **86c:80104**
- Qian, Min Ping (with Qian, Min; Qian, Cheng) Circulations of Markov chains with continuous time and the probability interpretation of some determinants. **86c:80104**
- Radjavi, Heydar See Grunenfelder, Lúsius et al., **86a:15020**
- Sayyed, Kamel (with Kishka, Zeinhom) A view on some topics of matrix functions. (Arabic summary) **86k:15014**
- Tomei, C. See Deift, P., **86b:05050**
- Vere-Jones, D. Permanents, determinants, bosons and fermions. **86f:05017**
- Waterhouse, William C. Symmetric determinants and Jordan norm similarities in characteristic 2. **86b:14035**
- 15A18 Eigenvalues, singular values, and eigenvectors
- Alkaios, Nicholas D. (with Bates, P. W.) Estimates for the eigenvalues of the Jordan product of Hermitian matrices. **86b:15011a**
(with Bates, P. W.) Erratum: "Estimates for the eigenvalues of the Jordan product of Hermitian matrices". **86b:15011b**
- Barker, G. P. (with Campbell, Stephen L.) Internal stability of two-dimensional systems. **86g:15006**
- Bates, P. W. See Alkaios, Nicholas D., **86b:15011a** and **86b:15011b**
- Brualdi, Richard A. (with Hoffman, A. J.) On the spectral radius of $(0, 1)$ -matrices. **86k:15002**
- Cain, Bryan E. Some spectral properties of polar decompositions. **86a:15013**
- Campbell, Stephen L. See Barker, G. P., **86g:15006**
- Cao, Zhi Qiang Eigenvectors of gradient matrices. I. (Chinese) (Not in MR)
(with Liu, Jia Quan) Eigenvectors of gradient matrices. II. (Chinese) (Not in MR)
- Cederbaum, L. S. See Walter, O. et al., **86b:15014**
- Chojnowski, Fabian See Gutman, Shaul, **86e:15010**
- Coleman, A. J. The product of unitary reflections. **86a:15014**
- Courtois, P.-J. (with Semal, P.) On polyhedra of Perron-Frobenius eigenvectors. **86e:15009**
- Delarte, Ph. (with Genin, Yves) Spectral properties of finite Toeplitz matrices. **86k:15003**
- Falk, S. Iterative Einschließung der kleinsten (größten) Eigenwerte eines hermiteschen Matrizenpaares. II. (English summary) [Simultaneous bracketing of the smallest (largest) eigenvalues of a pair of Hermitian matrices. II] **86j:15005**
- Genin, Yves See Delarte, Ph., **86k:15003**
- Gu, Yi Xi An upper estimate for the spectral radius of a matrix and a formula for the spectral radius of a nonnegative matrix. (Chinese) **86d:15004**
- Gutman, Shaul (with Chojnowski, Fabian) Root clustering for rational convex regions. **86e:15010**
- Hartwig, R. E. Generalizations of the spectral theorem for matrices. II. Matrix polynomials over arbitrary fields. **86g:15007**
- Hoffman, A. J. See Brualdi, Richard A., **86k:15002**
- Khasanov, V. B. Some spectral characteristics of λ -matrices. (Russian) **86b:15012**
- Kukharevko, N. V. Spectral properties of Jacobi matrices. (Russian) **86g:15008**
- Lancaster, P. (with Róssa, P.) Eigenvectors of H -selfadjoint matrices. **86e:15011**
- Liu, Jia Quan See Cao, Zhi Qiang (Not in MR)
- Mehrman, Volker On some conjectures on the spectra of r -matrices. **86b:15013**
- Reddi, S. S. Eigenvector properties of Toeplitz matrices and their application to spectral analysis of time series. (French and German summaries) **86i:15004**
- Róssa, P. See Lancaster, P., **86e:15011**
- Schirmer, J. See Walter, O. et al., **86b:15014**
- Semal, P. See Courtois, P.-J., **86e:15009**
- Sul'khanishvili, G. I. The spectrum of generalized matrix polynomials of several variables. (Russian. English and Georgian summaries) **86i:15006**
- Trench, William F. On the eigenvalue problem for Toeplitz band matrices. **86d:15005**
- Valiev, K. G. Splitting of the spectrum of matrices. (Russian. Kazakh summary) **86g:15009**
- Velteblit, A. I. A property of the boundary spectrum of nonnegative operators. (Russian) **86k:15004**
- Walter, O. (with Cederbaum, L. S.; Schirmer, J.) The eigenvalue problem for "arrow" matrices. **86b:15014**
- secondary classifications (15A18)
- Aspvall, Bengt (with Gilbert, John R.) Graph coloring using eigenvalue decomposition. **86a:05044**
- Bolla, Marianna (with Tusnády, G.) A method for singular values decomposition of general real matrices. **86e:05056**
- Cabrera, Javier F. (with Watson, G. S.) The algebra of hyperboloids of revolution. **86m:15014**
- Constantine, Gregory Lower bounds on the spectra of symmetric matrices with nonnegative entries. **86d:05082**
- Courtois, P.-J. (with Semal, P.) Error bounds for the analysis by decomposition of nonnegative matrices. **86k:85022**
- Datta, B. N. An analysis and synthesis of the classical Fujiwara methods for the root-separation problems. **86b:93038**
- D'yakonov, E. G. Some iteration methods in eigenvalue problems. (Russian) **86d:85048**
- Fiala, Tibor A structure theorem for the group of invertible matrices, and its role in solving eigenvalue problems. (See **86d:00014**)
- Gabriel, Richard Matrizen mit stationärer Diagonale bei unitärer Similarität. [Matrices with stationary diagonal under unitary similarity] **86c:15014**
- Gilbert, John R. See Aspvall, Bengt, **86a:05044**
- Haviv, Moshe (with Rothblum, Uriel G.) Bounds on distances between eigenvalues. **86g:05077**
- Johnson, Charles R. (with Rodman, L.) Inertia possibilities for completions of partial Hermitian matrices. **86b:15026**
- Luenberger, David G. See Yamada, Takeo, **86d:15014**
- Ortega, James M. Comment on: "Matrices with integer entries and integer eigenvalues" by J.-C. Renaud [Amer. Math. Monthly **90** (1983), no. 3, 202-203; MR **84c:15024**] and "Generation of test matrices by similarity transformations" by Ortega [Comm. ACM **7** (1964), 377-378; MR **29** #5375]. **86k:15012**
- Pinkus, A. Some extremal problems for strictly totally positive matrices. **86i:15009**
- (Renaud, J.-C.) See Ortega, James M., **86k:15012**
- Rodman, L. See Johnson, Charles R., **86b:15026**
- Rothblum, Uriel G. See Haviv, Moshe, **86g:05077**
- Runckel, H.-J. Systems of operator equations. **86f:05105**
- Semal, P. See Courtois, P.-J., **86e:15009**
- Seneta, E. Explicit forms for ergodicity coefficients and spectrum localization. **86c:80094**
- Styan, G. P. H. (with Takemura, Akimichi) Rank additivity and matrix polynomials. **86e:15003**
- Takemura, Akimichi See Styan, G. P. H., **86e:15003**
- Tusnády, G. See Bolla, Marianna, **86e:05056**
- Uchimura, Keisuke Truncations of infinite matrices and algebraic series associated with some CF grammars. **86h:68098**
- Van Dooren, P. Deadbeat control: a special inverse eigenvalue problem. **86c:93041**
- Vashchenko, T. V. Solution of the eigenvalue problem for band matrix pencils. (Russian) **86g:05078**
- Watson, G. S. See Cabrera, Javier F., **86m:15014**
- Wood, R. M. W. Quaternionic eigenvalues. **86m:15013**
- Wu, Jing Kun Sensitivity of the eigenvalues of a defective matrix. **86b:65032**
- Yamada, Takeo (with Luenberger, David G.) Generic properties of column-structured matrices. **86d:15014**
- Zhou, Shi Fan Existence of a real doubly stochastic matrices all of whose eigenvalues are real. (Chinese) **86c:15009**

15A21 Canonical forms, reductions, classification

- Barnett, S. Congenial matrices. **86m:15004**
 Division of generalized polynomials using the comrade matrix. **86m:15005**
 Barvinsk, Erich Antiprojectors with applications in the spectral theory. **86m:15006**
 Benedetti, Riccardo (with Cragnolini, Paolo) Versal families of matrices with respect to unitary conjugation. **86f:15003**
 Cragnolini, Paolo See Benedetti, Riccardo, **86f:15003**
 Fiedler, Miroslav Quasidirect decompositions of Hankel and Toeplitz matrices. **86k:15005**
 Gil Alvarez, María Angeles Relation between the stability criteria of Hermite and Hurwitz. (Spanish) **86j:15006**
 Gow, Roderick (with Laffey, Thomas J.) Pairs of alternating forms and products of two skew-symmetric matrices. **86d:15006**
 Johnson, Charles R. (with Rodman, L.) Convex sets of Hermitian matrices with constant inertia. **86f:15004**
 Laffey, Thomas J. See Gow, Roderick, **86d:15006**
 Nguyen Khong Tkhai Ω -similarity of linear operators in a finite-dimensional space. (Russian) **86e:15012**
 Rodman, L. See Johnson, Charles R., **86f:15004**
 de Vries, Hans Ludwig Pairs of linear mappings. **86k:15006**
 Waterhouse, William C. Similarity of matrices under $SL(n, K)$. **86m:15007**
 Wu, Qi Guang Necessary and sufficient conditions for simultaneous diagonalization of several matrices. (Chinese summary) **86h:15007**

secondary classifications (15A21)

- Al'pin, Yu. A. The rank of a Hankel matrix. (Russian) **86m:15001**
 Barnett, S. Manipulation of generalised polynomials using matrices. **86f:33012**
 Carayannis, G. See Kalouptaidis, N. et al., **86k:94007**
 (Daniel, J.) See Halmos, Paul R., **86c:47018**
 Fiala, Tibor A structure theorem for the group of invertible matrices, and its role in solving eigenvalue problems. (See **86d:00014**)
 Fonlupt, J. (with Raco, M.) Orientation of matrices. **86j:05045**
 Friedland, S. Simultaneous similarity of matrices. **86b:14020**
 Halmos, Paul R. BDF or the infinite principal axis theorem. (Czech) **86c:47018**
 Kadison, Richard V. Diagonalizing matrices. **86d:46056**
 Kalouptaidis, N. (with Manolakis, D.; Carayannis, G.) Efficient recursive triangularization, inversion and system solution of near-Toeplitz matrices and applications in signal processing. (French and German summaries) **86k:94007**
 Kocak, Hüseyin Quadratic integrals of linear Hamiltonian systems. **86c:59068**
 Lancaster, P. (with Róssa, P.) Eigenvectors of H -selfadjoint matrices. **86e:15011**
 Leach, Ronald J. On Gelbaum's algorithm for computing the minimal polynomial of a matrix. **86g:05063**
 (Lee, E. Bruce) See Przytycki, K. Maciej, **86b:15024**
 Li, Jiong Sheng Permutation equivalence of $(0, 1)$ square matrices. (Chinese) **86a:15010**
 Manolakis, D. See Kalouptaidis, N. et al., **86k:94007**
 McAnik, O. M. Similarity of unital matrix polynomials. (Russian. English summary) **86a:15026**
 Similarity of matrix polynomials. (Russian) **86a:15027**
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 Przytycki, K. Maciej Comments on: "Smith forms over $\mathbb{R}[z_1, z_2]$ " [IEEE Trans. Automat. Control **28** (1983), no. 1, 115-118; MR **84i:15014**] by E. B. Lee and S. H. Zak. **86b:15024**
 Raco, M. See Fonlupt, J., **86j:05045**
 Ran, A. C. M. (with Rodman, L.) The algebraic matrix Riccati equation. **86i:15007**
 Rodman, L. See Ran, A. C. M., **86i:15007**
 van Rootselaar, B. How to solve the system $z' = Az$. **86d:34015**
 Róssa, P. See Lancaster, P., **86e:15011**
 Smith, P. W. (with Wolkowicz, H.) Dimensionality of bi-infinite systems. **86c:15010**
 Taylor, G. C. Primitivity of products of Leslie matrices. **86k:92022**
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 (Zak, Stanislaw H.) See Przytycki, K. Maciej, **86b:15024**
 Zvyagina, R. A. Ordering of blocks in renewal of a basis with block structure. (Russian) **86h:90060**

15A22 Matrix pencils

- Kublanovskaya, V. N. (with Vashchenko, T. V.) Construction of the fundamental series of solutions of a matrix pencil. (Russian) **86j:15007**
 A general approach to the reduction of a regular linear pencil to a pencil of quasitriangular form. (Russian) **86m:15008**
 Smith, P. W. (with Wolkowicz, H.) Dimensionality of bi-infinite systems. **86c:15010**
 Vashchenko, T. V. See Kublanovskaya, V. N., **86j:15007**
 Wolkowicz, H. See Smith, P. W., **86c:15010**

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- Hammarling, S. J. (with Singer, M. A.) A canonical form for the algebraic Riccati equation. (See **86f:93009**)
 Kågström, Bo The generalized singular value decomposition and the general $(A - \lambda B)$ -problem. **86c:65037**
 Lancaster, P. (with Maroulas, J.) The kernel of the Bezoutian for operator polynomials. **86k:47015**
 Maroulas, J. See Lancaster, P., **86k:47015**
 Singer, M. A. See Hammarling, S. J., **(86f:93009)**
 Van Dooren, P. Factorization of a rational matrix: the singular case. **86m:93026**

- Vashchenko, T. V. Solution of the eigenvalue problem for band matrix pencils. (Russian) **86g:65078**
 Wu, Jing Kun Sensitivity of the generalized eigenvalues for regular matrix pencils. (Chinese. English summary) **86m:65032**

15A23 Factorization of matrices

- Berg, Lothar Zur Asymptotik der LR -Aufspaltung Toeplitz-scher Bandmatrizen. [On the asymptotics of the LR -splitting of Toeplitz band matrices] **86f:15005**
 Chen, Ji Cheng The nonnegative rank factorizations of nonnegative matrices. **86j:15008**
 Gregory, D. A. (with Pullman, N. J.) Semiring rank: Boolean rank and nonnegative rank factorizations. **86h:15008**
 Khodshaev, N. D. See Sudakov, R. S., **86h:15009**
 Petrichovich, V. M. Factorization of cell-triangular and cell-diagonal polynomial matrices. (Russian. English summary) **86d:15007**
 Block-triangular and block-diagonal factorization of block-triangular and block-diagonal polynomial matrices. (Russian) **86m:15009**
 Pták, Vlastimil Lyapunov, Bézout, and Hankel. **86b:15015**
 Pullman, N. J. See Gregory, D. A., **86h:15008**
 Ran, A. C. M. (with Rodman, L.) Stability of invariant maximal semidefinite subspaces. II. Applications: selfadjoint rational matrix functions, algebraic Riccati equations. **86j:15018b**
 Rodman, L. See Ran, A. C. M., **86j:15018b**
 Sudakov, R. S. (with Khodshaev, N. D.) A new method for diagonalization of matrices. (Russian) **86h:15009**
 Zelisko, V. R. Isolation of a unital factor, which is unique with a given Smith form, in matrix polynomials. (Russian. English summary) **86f:15006**
 Zhu, Ci You On the existence and uniqueness of LDL^T decompositions of real symmetric nonnegative definite matrices and related problems. (Chinese. English summary) **86b:15016**

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- Callier, Frank M. On polynomial matrix spectral factorization by symmetric extraction. **86m:93024**
 Chan, Tony F. Corrigendum: "On the existence and computation of LU -factorizations with small pivots" [Math. Comp. **42** (1984), no. 166, 535-547; MR **85i:65037**]. **86j:65033**
 Fuhrmann, P. A. See Shamir, T., **86k:93038**
 Hashimoto, Hiroshi Decomposition of fuzzy matrices. **86c:15017**
 Kitapci, A. See Silverman, L. M., **(86b:93046)**
 Roberts, Sanford M. Partitioning of invariant imbedding systems. **86b:34029**
 Shamir, T. (with Fuhrmann, P. A.) Minimal factorizations of rational matrix functions in terms of polynomial models. **86k:93038**
 Silverman, L. M. (with Kitapci, A.) Structure at infinity of a rational matrix. (French summary) (See **86b:93046**)
 Sinkhorn, Richard Generalized selfadjointness in the complex doubly stochastic matrices. **86a:15025**
 Stewart, G. W. On the asymptotic behavior of scaled singular value and QR decompositions. **86f:65085**
 Van Dooren, P. Factorization of a rational matrix: the singular case. **86m:93026**
 Vlach, Martin LU decomposition and forward-backward substitution of recursive bordered block diagonal matrices. **86d:65065**
 Watkins, David S. Isospectral flows. **86d:59054**

15A24 Matrix equations and identities

- Cline, Randall E. (with McConnell, Robert M.) Extensions of the Levine-Nahikian method for constructing involutory matrices. **86a:15015**
 Feintuch, A. (with Rubin, Matatyahu) The matrix equation $AX - XB = C$. **86h:15010**
 Haveric, Madlida Formulae for general reproductive solutions of certain matrix equations. **86b:15017**
 Hernández García, Vicente See Incertis Carro, Fernando C., **86a:15016**
 Hershkovits, Daniel (with Schneider, Hans) Scalings of vector spaces and the uniqueness of Lyapunov scaling factors. **86j:15009**
 Incertis Carro, Fernando C. (with Hernández García, Vicente) On a generalization of the algebraic Riccati equation. **86a:15016**
 Ketkic, Jovan D. Explicit solutions of some linear matrix equations. **86c:15003**
 Khatri, C. G. Some results on decomposition of matrices. **86h:15011**
 King, Fenn (with Wang, Kai) On the g -circulant solutions to the matrix equation $A^m = \lambda J$. II. **86h:15012**
 Lancaster, P. (with Róssa, P.) On the matrix equation $AX + X^*A = C$. **86e:15013**
 (with Lerer, L.; Tismenetsky, M.) Factored forms for solutions of $AX - XB = C$ and $X - AXB = C$ in companion matrices. **86b:15018**
 Lerer, L. See Lancaster, P. et al., **86b:15018**
 Li, Jun Ru See Tu, Bo Xun, **86a:15017**
 Li, Shao Jiang Some inverse problems for matrices. (Chinese. English summary) **86d:15008**
 Ma, Siu Lun On rational circulants satisfying $A^m = dI + \lambda J$. **86k:15007**
 McCloskey, Joseph P. Properties of normal, r -potent matrices. **86m:15010**
 McConnell, Robert M. See Cline, Randall E., **86a:15015**
 Mitra, Sujit Kumar The matrix equations $AX = C$, $XB = D$. **86k:15008**
 Neumaier, A. The extremal case of some matrix inequalities. **86i:15006**
 Ran, A. C. M. (with Rodman, L.) The algebraic matrix Riccati equation. **86i:15007**
 Rodman, L. See Ran, A. C. M., **86i:15007**
 Róssa, P. See Lancaster, P., **86e:15013**
 Rubin, Matatyahu See Feintuch, A., **86h:15010**
 Schneider, Hans See Hershkovits, Daniel, **86j:15009**
 Tang, Long Ji See Zhang, Lei, **86e:15014**
 Tismenetsky, M. See Lancaster, P. et al., **86b:15018**

- Tu, Bo Xun (with Li, Jun Ru) Lyapunov's second method and the matrix equation $AX + XB' = C$. II. (Chinese) **86a:15017**
- Wang, Kai See King, Fenn, **86b:15012**
- Wiens, D. On some pattern-reduction matrices which appear in statistics. **86j:15010**
- Zhang, Lei (with Tang, Long Ji) A class of inverse problems for the linear algebraic equation $Ax = b$. (Chinese) **86e:15014**
- Ziętak, K. On a particular case of the inconsistent linear matrix equation $AX + YB = C$. **86e:15015**

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- Bialas, S. Comments on: "Eigenvalue bounds for algebraic Riccati and Lyapunov equations" [IEEE Trans. Automat. Control **27** (1982), no. 2, 461-463; MR **84d:15022**] by V. R. Karanam. **86e:15018**
- Courter, R. C. The maximum dimension of nilpotent subspaces of K_n satisfying the identity S_4 . **86a:15018**
- Fu, Sheau Wei (with Sawan, Mahmoud) Solution of the discrete Lyapunov equation. **86f:65071**
- Fuhrmann, P. A. The algebraic Riccati equation—a polynomial approach. **86f:93078** (Karanam, V. R.) See Bialas, S., **86e:15018**
- McCloskey, Joseph P. Characterizations of r -potent matrices. **86a:15038**
- Petrichkovich, V. M. Block-triangular and block-diagonal factorization of block-triangular and block-diagonal polynomial matrices. (Russian) **86m:15009**
- Pták, Vlastimil Lyapunov, Bézout, and Hankel. **86b:15015**
- Ran, A. C. M. (with Rodman, L.) Stability of invariant maximal semidefinite subspaces. II. Applications: selfadjoint rational matrix functions, algebraic Riccati equations. **86j:15018b**
- Rodman, L. See Ran, A. C. M., **86j:15018b**
- Sawan, Mahmoud See Fu, Sheau Wei, **86f:65071**
- Wimmer, H. K. Monotonicity of maximal solutions of algebraic Riccati equations. **86f:93083**
- Żak, Stanisław H. On the polynomial matrix equation $AX + YB = C$. **86m:93039**

15A27 Commutativity

- Gracia, Juan-M. On matrices that commute with their derivatives. (Spanish. English summary) **86c:15004**

secondary classifications (15A27)

- Dobryakov, L. D. Commuting generalized inverse matrices. (Russian) **86a:15005**
- Xiao, Shang Bin Multiplication of quaternion matrices, and its commutativity. (Chinese. English summary) **86a:15021**

15A30 Algebraic systems of matrices [See also 16A42, 20Gxx, 20Hxx.]

- Atkinson, M. D. A problem of Westwick on k -spaces. **86g:15010**
- Barker, G. P. (with Conklin, Joyce Jaben) Reflexive algebras of matrices. **86c:15005**
- Butković, P. (with Hevry, Ferdinand) A condition for the strong regularity of matrices in the minimax algebra. **86i:15008**
- Conklin, Joyce Jaben See Barker, G. P., **86c:15005**
- Courter, R. C. The maximum dimension of nilpotent subspaces of K_n satisfying the identity S_4 . **86a:15018**
- Guritan, Jaroslav The semigroup of general circulant matrices. (Russian and Slovak summaries) **86e:15016**
- Hammarling, S. J. (with Singer, M. A.) A canonical form for the algebraic Riccati equation. (See **86f:93009**)
- Hevry, Ferdinand See Butković, P., **86i:15008**
- Meehlum, Roy On the maximal rank in a subpace of matrices. **86j:15011**
- Movsavian, A. M. Convolution identities on a nilpotent subalgebra of a second-order matrix algebra. (Russian. Armenian summary) **86h:15013**
- Rosenthal, Erik A remark on Burnside's theorem on matrix algebras. **86a:15019**
- Shao, Jia Yu Products of irreducible matrices. **86e:15011**
- Singer, M. A. See Hammarling, S. J., (**86f:93009**)
- Zakir'yanov, K. Kh. A criterion for membership in a subgroup generated by two-dimensional elementary matrices. (Russian) **86f:15007**

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- Burtman, M. I. Finitely generated subalgebras of the Menger algebra of linear mappings. (Russian. English and Azerbaijani summaries) **86c:08003**
- Hashimoto, Hiroshi Transitive reduction of a rectangular Boolean matrix. **86a:05027**
- Mal'tsev, Yu. N. The variety of algebras generated by a complete matrix algebra. (Russian) **86f:08011**
- Marcus, Marvin An exponential group. **86f:22008**
- Stanley, Richard P. $GL(n, C)$ for combinatorialists. **86b:05004**
- Tomel, C. The topology of isospectral manifolds of tridiagonal matrices. **86d:58091**

15A33 Matrices over special rings (quaternions, finite fields, etc.)

- Baik, Seung Il See Kim, Jin Bai, **86m:15012b**
- Chao, Chong Yun (with Zhang, Mou Cheng) On generalized circulants over a Boolean algebra. **86c:15006**
- Eganova, I. A. (with Shirokov, M. I.) Orthomatrices and octonions. **86b:15019**
- Grunenfelder, Lusius (with Paré, Robert; Radjavi, Heydar) On a commutator theorem of Robert C. Thompson. **86a:15020**
- Kim, Jin Bai Inverses of Boolean matrices. **86m:15012a**
- (with Baik, Seung Il) A note about inverses of Boolean matrices. **86m:15012b**
- Manley, P. L. Determinant invariance of partition matrices. **86h:15014**
- Newman, Morris Matrix completion theorems. **86d:15009**
- de Oliveira, G. N. Counting problems in linear algebra. **86b:15020**
- Paré, Robert See Grunenfelder, Lusius et al., **86a:15020**
- Radjavi, Heydar See Grunenfelder, Lusius et al., **86a:15020**

- Shao, Jia Yu Matrices permutation equivalent to primitive matrices. **86k:15009**
- Shirokov, M. I. See Eganova, I. A., **86b:15019**
- Wood, R. M. W. Quaternionic eigenvalues. **86m:15013**
- Xiao, Shang Bin Multiplication of quaternion matrices, and its commutativity. (Chinese. English summary) **86a:15021**
- Zhang, Mou Cheng See Chao, Chong Yun, **86c:15006**

secondary classifications (15A33)

- Cline, Randall E. (with McConnell, Robert M.) Extensions of the Levine-Nahikian method for constructing involutory matrices. **86a:15015**
- Djoković, Dragomir Z. Inner derivations of division rings and canonical Jordan form of triangular operators. **86h:16018**
- Gregory, D. A. (with Pullman, N. J.) Semiring rank: Boolean rank and nonnegative rank factorizations. **86h:15008**
- Huylebrouck, D. (with Puystjens, R.; Van Geel, J.) The Moore-Penrose inverse of a matrix over a semisimple Artinian ring. **86g:15003**
- Koh, Kwangil On the matrix ring over a finite field. **86g:16027**
- McConnell, Robert M. See Cline, Randall E., **86a:15015**
- McDonald, Bernard R. ★ Linear algebra over commutative rings. **86d:13008**
- Moran, Gadi Chords in a circle and linear algebra over $GF(2)$. **86c:20003**
- Newman, Morris Sums of squares of matrices. **86k:15011**
- Nguyễn Văn Mậu Regularization of polynomials in algebraic and almost algebraic operators. **86c:47002**
- Petrichkovich, V. M. Factorization of cell-triangular and cell-diagonal polynomial matrices. (Russian. English summary) **86d:15007**
- Pisier, Adrian Matrices over group rings which are Alexander matrices. **86a:57005**
- Pullman, N. J. See Gregory, D. A., **86h:15008**
- Puystjens, R. See Huylebrouck, D. et al., **86g:15003**
- Singh, S. Nabachandra Generalized inverses of matrices of index zero or one over a division ring. (Not in MR)
- Van Geel, J. See Huylebrouck, D. et al., **86g:15003**

15A36 Matrices of integers [See also 11C20.]

- Chandrasekaran, R. (with Shirali, S.) Total weak unimodularity: testing and applications. **86g:15011**
- Fomenko, A. T. On the geometry of the distribution of lattice points in hyperdomains. (Russian) **86a:15022**
- Hanson, Robert Self-inverse integer matrices. **86k:15010**
- Newman, Morris Sums of squares of matrices. **86k:15011**
- Ortega, James M. Comment on: "Matrices with integer entries and integer eigenvalues" by J.-C. Renaud [Amer. Math. Monthly **90** (1983), no. 3, 202-203; MR **84c:15024**] and "Generation of test matrices by similarity transformations" by Ortega [Comm. ACM **7** (1964), 377-378; MR **29** #5375]. **86k:15012**
- (Renaud, J.-C.) See Ortega, James M., **86k:15012**
- Shirali, S. See Chandrasekaran, R., **86g:15011**
- Tausky, Olga Ideal matrices. III. **86j:15012**

secondary classifications (15A36)

- Boyle, Mike Shift equivalence and the Jordan form away from zero. **86i:28018**
- Carter, David (with Keller, Gordon) Elementary expressions for unimodular matrices. **86a:1023**
- Donald, John (with Elwin, John; Hager, Richard; Salamon, Peter) A graph theoretic upper bound on the permanent of a nonnegative integer matrix. II. The extremal case. **86f:15001b**
- Elwin, John See Donald, John et al., **86f:15001b**
- Hager, Richard See Donald, John et al., **86f:15001b**
- Keller, Gordon See Carter, David, **86a:1023**
- King, Fenn (with Wang, Kai) On the g -circulant solutions to the matrix equation $A^m = AJ$. II. **86h:15012**
- Nguyen, Truc T. (with Sampson, Allan R.) Counting the number of $p \times q$ integer matrices more concordant than a given matrix. **86i:05009**
- Ryser, H. J. A new look at the optimal assignment problem. **86i:05041**
- Salamon, Peter See Donald, John et al., **86f:15001b**
- Sampson, Allan R. See Nguyen, Truc T., **86i:05009**
- Wang, Kai See King, Fenn, **86h:15012**

15A39 Linear inequalities

secondary classifications (15A39)

- Barker, G. P. (with Tam, Bit Shun; Davila, Norbil) A geometric Gordan-Stiemke theorem. **86j:90088**
- Chandrasekaran, R. (with Shirali, S.) Total weak unimodularity: testing and applications. **86g:15011**
- Dantsig, George B. (with Eaves, B. Curtis; Rothblum, Uriel G.) A decomposition and scaling-inequality for line-sum-symmetric nonnegative matrices. **86m:15016**
- Davila, Norbil See Barker, G. P. et al., **86j:90088**
- De Pierro, Alvaro R. (with Iusem, Alfredo N.) A simultaneous projections method for linear inequalities. **86h:65039**
- Eaves, B. Curtis See Dantsig, George B. et al., **86m:15016**
- Iusem, Alfredo N. See De Pierro, Alvaro R., **86h:65039**
- Neumaier, A. The extremal case of some matrix inequalities. **86i:15006**
- Pan, V. Fast finite methods for a system of linear inequalities. **86g:90069**
- Pupkov, V. A. Some sufficient conditions for the nondegeneracy of matrices. (Russian) **86c:15002**
- Rothblum, Uriel G. See Dantsig, George B. et al., **86m:15016**
- Shirali, S. See Chandrasekaran, R., **86g:15011**
- Tam, Bit Shun See Barker, G. P. et al., **86j:90088**

15A42 Inequalities involving eigenvalues and eigenvectors

- Bellman, Richard** Bounds for the greatest and the least characteristic roots of a positive definite matrix using powers of 2. (See 86d:00013)
- On the second-greatest and second-least characteristic roots of a positive definite matrix. (See 86d:00013)
- Bhatia, Rajendra** (with Holbrook, John A. R.) Short normal paths and spectral variation. 86c:15017
- Blaiss, S.** Comments on: "Eigenvalue bounds for algebraic Riccati and Lyapunov equations" [IEEE Trans. Automat. Control 27 (1982), no. 2, 461-463; MR 84d:15022] by V. R. Karanam. 86c:15018
- Cabrera, Javier F.** (with Watson, G. S.) The algebra of hyperboloids of revolution. 86m:15014
- Chang, Sim Chung** Generalizations of two inequalities involving Hermitian forms. 86j:15013
- Goldberg, Moshe** (with Straus, E. G.) Combinatorial inequalities, matrix norms, and generalized numerical radii. II. (See 86d:00013)
- Holbrook, John A. R.** See **Bhatia, Rajendra**, 86c:15017
- (Karanam, V. R.) See **Blaiss, S.**, 86c:15018
- Kostova, T. V.** Estimates of the real parts of eigenvalues of complex matrices. 86c:15019
- Neumann, Michael** See **de Pillis, John**, 86f:15008
- Pang, Ming Xian** Some estimates of the eigenvalues of M -matrices. (Chinese. English summary) 86c:15007
- de Pillis, John** (with Neumann, Michael) The effect of the perturbation of Hermitian matrices on their eigenvectors. 86f:15008
- Pinkus, A.** Some extremal problems for strictly totally positive matrices. 86i:15009
- Savinov, G. V.** Determination of extremal eigenvalues by minimization of functionals of a special type. (Russian) 86b:15015
- Straus, E. G.** See **Goldberg, Moshe**, (86d:00013)
- Sun, Ji Guang** On the perturbation of the eigenvalues of a normal matrix. (Chinese. English summary) 86d:15010
- Watson, G. S.** See **Cabrera, Javier F.**, 86m:15014

secondary classifications (15A42)

- Chojnowski, Fabian** See **Gutman, Shaul**, 86c:15010
- Gu, Yi Xi** An upper estimate for the spectral radius of a matrix and a formula for the spectral radius of a nonnegative matrix. (Chinese) 86d:15004
- Gutman, Shaul** (with Chojnowski, Fabian) Root clustering for rational convex regions. 86c:15010
- Kukhareenko, N. V.** Spectral properties of Jacobi matrices. (Russian) 86g:15008
- Mehrmann, Volker** On a generalized Fan inequality. 86c:15023
- Miranda, Maria Emilia Fernandes** On the trace of the product and the determinant of the sum of complex matrices with prescribed singular values. 86c:15011
- Nwokah, O. D. I.** Composite matrix inverses and generalized Gershgorin sets. 86c:15001
- Saw, John G.** See **Schott, James R.**, 86c:62066
- Schott, James R.** (with Saw, John G.) A multivariate one-way classification model with random effects. 86c:62066
- Scott, David S.** On the accuracy of the Gershgorin circle theorem for bounding the spread of a real symmetric matrix. 86f:65074
- Tan, Choon Peng** A bound problem in the modeling of computer systems and queueing networks. 86i:68008

15A45 Miscellaneous inequalities involving matrices

- Churilov, A. N.** Solvability of matrix inequalities. (Russian) 86d:15011
- Crawford, Charles R.** Bounds for definite matrix pairs. 86j:15014
- Graham, R. L.** (with Sloane, N. J. A.) Anti-Hadamard matrices. 86i:15010
- Mehrmann, Volker** On a generalized Fan inequality. 86a:15023
- Sloane, N. J. A.** See **Graham, R. L.**, 86i:15010
- Stepniak, C.** Ordering of nonnegative definite matrices with application to comparison of linear models. 86m:15015
- Trapp, George E.** Hermitian semidefinite matrix means and related matrix inequalities—an introduction. 86f:15009

secondary classifications (15A45)

- Bapat, Ravindra** A stronger form of the Egorychev-Falikman theorem on permanents. 86b:15004
- On permanents of positive semidefinite matrices. 86c:15005
- Chang, Derek K.** A note on a conjecture of T. H. Foregger. 86b:15005
- Friedland, S.** Stable convex sets of matrices. 86c:15023
- Gasca, Mariano** Some inequalities on determinants of special matrices. (Spanish) 86a:15008
- Hartfiel, D. J.** (with Loewy, Raphael) A determinantal version of the Frobenius-König theorem. 86a:15009
- Johnson, Gregory A.** Inverse N_0 -matrices. 86c:15012
- LeVeque, Randall J.** (with Trefethen, Lloyd N.) On the resolvent condition in the Kreiss matrix theorem. 86c:39004
- Loewy, Raphael** See **Hartfiel, D. J.**, 86a:15009
- Merris, Russell** (with Watkins, William Earl) Inequalities and identities for generalized matrix functions. 86c:15007
- Mori, Takeshiro** On some bounds in the algebraic Riccati and Lyapunov equations. 86c:93068
- Pinkus, A.** Some extremal problems for strictly totally positive matrices. 86i:15009
- Sinkhorn, Richard** A problem related to the van der Waerden permanent theorem. 86c:15008
- Trefethen, Lloyd N.** See **LeVeque, Randall J.**, 86c:39004
- Watkins, William Earl** See **Merris, Russell**, 86c:15007

15A48 Positive matrices and their generalizations; cones of matrices

- Adin, Ron M.** On extreme positive operators between polyhedral cones. 86j:15015
- Berman, Abraham** Convexity, graph theory and nonnegative matrices. 86h:15016
- Dantsig, George B.** (with Eaves, B. Curtis; Rothblum, Uriel G.) A decomposition and scaling-inequality for line-sum-symmetric nonnegative matrices. 86m:15016
- van den Driessche, P.** See **Johnson, Charles R. et al.**, 86b:15022
- Eaves, B. Curtis** See **Dantsig, George B. et al.**, 86m:15016
- Fujimoto, Takao** (with Herrero, Carmen; Villar, Antonio) A sensitivity analysis for linear systems involving M -matrices and its application to the Leontief model. 86c:15020
- Giovannoli, A.** (with Wynn, H. P.) G -majorization with applications to matrix orderings. 86m:15017
- Grządlewski, Ryszard** Extreme positive contractions on finite-dimensional ℓ^p -spaces. 86m:15018
- Herrero, Carmen** See **Fujimoto, Takao et al.**, 86c:15020
- Imam, I. N.** The Schur complement and the inverse M -matrix problem. 86b:15021
- Johnson, Charles R.** (with Oleksy, D. D.; van den Driessche, P.) M -matrix products having positive principal minors. 86b:15022
- Mathew, Thomas** (with Mitra, Sujit Kumar) Shorted operators and the identification problem—the real case. 86c:15008
- Mitra, Sujit Kumar** See **Mathew, Thomas**, 86c:15008
- Moon, Byung Soo** Characterizations of order ideals and perfect subspaces in the ordered normed space of $n \times n$ Hermitian matrices. 86d:15013
- Oleksy, D. D.** See **Johnson, Charles R. et al.**, 86b:15022
- Olkin, Ingram** A probabilistic proof of a theorem of Schur. 86h:15017
- Rønning, Gerd** On the nonnegativity of XX^+ and its relevance in econometrics. 86f:15010
- Rothblum, Uriel G.** See **Dantsig, George B. et al.**, 86m:15016
- Shao, Jia Yu** On a conjecture about the exponent set of primitive matrices. 86i:15013
- Villar, Antonio** See **Fujimoto, Takao et al.**, 86c:15020
- Wiener, Gerry** A theorem concerning certain sign symmetric matrices whose inverses are Morishima. 86j:15016
- Wynn, H. P.** See **Giovannoli, A.**, 86m:15017
- Zijm, W. H. M.** R -theory for countable reducible nonnegative matrices. 86a:15024

secondary classifications (15A48)

- Aspvall, Bengt** (with Gilbert, John R.) Graph coloring using eigenvalue decomposition. 86a:05044
- Burmeister, W.** (with Schmidt, Jochen W.) Determination of the cone radius for positive concave operators. 86c:90095
- Butler, G. J.** (with Johnson, Charles R.; Wolkowicz, H.) Nonnegative solutions of a quadratic matrix equation arising from comparison theorems in ordinary differential equations. 86f:34072
- Chen, Ji Cheng** The nonnegative rank factorizations of nonnegative matrices. 86j:15008
- Gasca, Mariano** See **Mühlbach, G.**, 86h:15006
- Geramita, Joan M.** (with Pullman, N. J.) ★ An introduction to the application of nonnegative matrices to biological systems. 86h:92007
- Gil Alvarez, María Angeles** Relation between the stability criteria of Hermite and Hurwitz. (Spanish) 86j:15006
- Gilbert, John R.** See **Aspvall, Bengt**, 86a:05044
- Gu, Yi Xi** An upper estimate for the spectral radius of a matrix and a formula for the spectral radius of a nonnegative matrix. (Chinese) 86d:15004
- Hua, Luo Geng** On the mathematical theory of globally optimal planned economic systems. 86f:90041
- Jain, Surender Kumar** (with Snyder, L. E.) Linear systems having nonnegative least squares solution. 86g:15001
- Jia, Rong Qing** On the sign regularity of translated kernels. (Chinese) 86h:41025
- Johnson, Charles R.** Sign patterns of inverse nonnegative matrices. 86i:15001
- See also **Butler, G. J. et al.**, 86f:34072
- Kannan, Rangachary** (with Ray, M. B.) Monotone iterative methods for nonlinear equations involving a noninvertible linear part. 86h:65071
- Kostova, T. V.** Estimates of the real parts of eigenvalues of complex matrices. 86c:15019
- Lind, D. A.** The entropies of topological Markov shifts and a related class of algebraic integers. 86c:58092
- Marek, I.** Perron roots of a convex combination of a cone preserving map and its adjoint. 86h:15020
- (with Žitný, K.) Two-sided bounds for the spectral radius of a positive linear map. (German and Russian summaries) 86m:47058
- Mohan, Srinivasa Raghavan** See **Ramamurthy, K. G.**, 86b:15003
- Mühlbach, G.** (with Gasca, Mariano) A generalization of Sylvester's identity on determinants and some applications. 86h:15006
- Poljak, Svatopluk** (with Tursík, Daniel) On systems, periods and semipositive mappings. 86f:93065
- Pullman, N. J.** See **Geramita, Joan M.**, 86h:92007
- Ramamurthy, K. G.** (with Mohan, Srinivasa Raghavan) Nonnegativity of principal minors of generalized inverses of P_0 -matrices. 86b:15003
- Ray, M. B.** See **Kannan, Rangachary**, 86h:65071
- Schmidt, Jochen W.** See **Burmeister, W.**, 86c:90095
- Shao, Jia Yu** Products of irreducible matrices. 86m:15011
- Shapiro, Alexander** Extremal problems on the set of nonnegative definite matrices. 86m:90147
- Snyder, L. E.** See **Jain, Surender Kumar**, 86g:15001
- Stepniak, C.** Ordering of nonnegative definite matrices with application to comparison of linear models. 86m:15015
- Tan, Choon Peng** Spectrum localization of an ergodic stochastic matrix. 86b:15023
- Tang, Long Ji** See **Zhang, Lei**, 86c:15014
- Tursík, Daniel** See **Poljak, Svatopluk**, 86f:93065

- Veltabli, A. I. A property of the boundary spectrum of nonnegative operators. (Russian) **86k:15004**
- Victory, H. D., Jr. On nonnegative solutions of matrix equations. **86b:15003**
- Wolkowicz, H. See Butler, G. J. et al., **86f:34072**
- Zhang, Lei (with Tang, Long Ji) A class of inverse problems for the linear algebraic equation $Ax = b$. (Chinese) **86e:15014**
- Zhu, Ci You On the existence and uniqueness of LDL^T decompositions of real symmetric nonnegative definite matrices and related problems. (Chinese. English summary) **86b:15016**
- Zijm, W. H. M. \star Nonnegative matrices in dynamic programming. **86e:90122**
- Žitný, K. See Marek, I., **86m:47058**
- 15A51 Stochastic matrices**
- von Below, Joachim On a theorem of L. Mirsky on even doubly-stochastic matrices. **86j:15017**
- Santos, J. L. Some notes on regularity in stochastic matrices. (Spanish. English summary) **86e:15021**
- Sinkhorn, Richard Generalized selfadjointness in the complex doubly stochastic matrices. **86a:15025**
- Tan, Choon Peng Spectrum localization of an ergodic stochastic matrix. **86b:15023**
- Zhou, Shi Fan Existence of a real doubly stochastic matrices all of whose eigenvalues are real. (Chinese) **86c:15009**
- secondary classifications (15A51)
- Baik, Seung Il See Kim, Jin Bai, **86m:15012b**
- Chang, Derek K. A note on a conjecture of T. H. Foregger. **86b:15005**
- Courtois, P.-J. (with Semal, P.) Block decomposition and iteration in stochastic matrices. **86m:65029**
- Grasilewicz, Ryszard Extreme positive contractions on finite-dimensional ℓ^p -spaces. **86m:15018**
- Kim, Jin Bai (with Baik, Seung Il) A note about inverses of Boolean matrices. **86m:15012b**
- Semal, P. See Courtois, P.-J., **86m:65029**
- Seneta, E. (with Tan, Choon Peng) The Euclidean and Frobenius ergodicity coefficients and spectrum localization. **86a:15032**
- Explicit forms for ergodicity coefficients and spectrum localization. **86c:60094**
- Tan, Choon Peng See Seneta, E., **86a:15032**
- 15A52 Random matrices**
- secondary classifications (15A52)
- Cohen, Joel E. (with Newman, Charles M.) The stability of large random matrices and their products. **86a:60013**
- Girko, V. L. Spectral theory of random matrices. (Russian) **86m:60094**
- Kesten, Harry (with Spitzer, Frank) Convergence in distribution of products of random matrices. **86c:60017**
- Mukhopadhyay, Ashish On the probability that the determinant of an $n \times n$ matrix over a finite field vanishes. **86a:15012**
- Newman, Charles M. See Cohen, Joel E., **86a:60013**
- Spitzer, Frank See Kesten, Harry, **86c:60017**
- Trotter, Hale F. Eigenvalue distributions of large Hermitian matrices; Wigner's semicircle law and a theorem of Kac, Murdock, and Szegő. **86c:60055**
- 15A54 Matrices over function rings in one or more variables**
- Fuhrmann, P. A. On Hamiltonian rational transfer functions. **86d:15013**
- Gohberg, Israel (with Lancaster, P.; Rodman, L.) A sign characteristic for selfadjoint rational matrix functions. **86b:15018**
- Lancaster, P. See Gohberg, Israel et al., **86b:15018**
- (Lee, E. Bruce) See Przytycki, K. Maciej, **86b:15024**
- Mal'nik, O. M. Similarity of unital matrix polynomials. (Russian. English summary) **86a:15026**
- Similarity of matrix polynomials. (Russian) **86a:15027**
- Przytycki, K. Maciej Comments on: "Smith forms over $R[z_1, z_2]$ " [IEEE Trans. Automat. Control **28** (1983), no. 1, 115-118; MR **84i:15014**] by E. B. Lee and S. H. Zak. **86b:15024**
- Rodman, L. See Gohberg, Israel et al., **86b:15018**
- Wimmer, H. K. On the dimension of bi-infinite systems. **86c:15011**
- (Zak, Stanisław H.) See Przytycki, K. Maciej, **86b:15024**
- secondary classifications (15A54)
- Chang, Fan Ren See Shieh, L. S. et al., **86f:93054**
- Falk, S. Expansion von Polynomen und Polynommatrizen. (English and Russian summaries) [Expansion of polynomials and polynomial matrices] **86f:70019**
- Gohberg, Israel (with Kaashoek, M. A.; Lerer, L.; Rodman, L.) Minimal divisors of rational matrix functions with prescribed zero and pole structure. **86k:93035**
- Hartfiel, D. J. (with Loewy, Raphael) A determinantal version of the Frobenius-König theorem. **86a:15009**
- Kaashoek, M. A. See Gohberg, Israel et al., **86k:93035**
- Karcanias, N. See Vardulakis, A. I. G., **86a:93030**
- Khargonekar, Pramod P. (with Özgüler, A. Bülent) System-theoretic and algebraic aspects of the rings of stable and proper stable rational functions. **86f:93035**
- Lerer, L. See Gohberg, Israel et al., **86k:93035**
- Loewy, Raphael See Hartfiel, D. J., **86a:15009**
- Özgüler, A. Bülent See Khargonekar, Pramod P., **86f:93035**
- Rodman, L. See Gohberg, Israel et al., **86k:93035**
- Shieh, L. S. (with Chang, Fan Ren; Yates, Robert E.) The generalized matrix continued-fraction descriptions in the second Cauchy form. **86f:93054**
- Smith, P. W. (with Wolkowicz, H.) Dimensionality of bi-infinite systems. **86c:15010**
- Sulokhanishvili, G. I. The spectrum of generalized matrix polynomials of several variables. (Russian. English and Georgian summaries) **86i:15005**
- Vardulakis, A. I. G. (with Karcanias, N.) Classification of proper bases of rational vector spaces: minimal MacMillan degree bases. **86a:93030**
- Wolkowicz, H. See Smith, P. W., **86c:15010**
- Yates, Robert E. See Shieh, L. S. et al., **86f:93054**
- 15A57 Other types of matrices (Hermitian, skew-Hermitian, etc.)**
- Barnett, S. See Gover, M. J. C., **86b:15019**
- Dickinson, Bradley W. An inverse problem for Toeplitz matrices. **86b:15025**
- Gover, M. J. C. (with Barnett, S.) Generating polynomials for matrices with Toeplitz or conjugate-Toeplitz inverses. **86b:15019**
- Johnson, Charles R. (with Rodman, L.) Inertia possibilities for completions of partial Hermitian matrices. **86b:15026**
- Johnson, Gregory A. Inverse N_0 -matrices. **86c:15012**
- Luenberger, David G. See Yamada, Takeo, **86d:15014**
- McCloskey, Joseph P. Characterizations of r -potent matrices. **86a:15028**
- Nakamura, Yoshihiro Any Hermitian matrix is a linear combination of four projections. **86a:15029**
- Ran, A. C. M. (with Rodman, L.) Stability of invariant maximal semidefinite subspaces. I. **86j:15018a**
- Rodman, L. See Johnson, Charles R., **86b:15026** and Ran, A. C. M., **86j:15018a**
- Ronner, Arjen (with Sterken, Elmer) Generalization of $M(x)$ -matrices. Application to mathematical economics and econometrics. **86c:15013**
- Sterken, Elmer See Ronner, Arjen, **86c:15013**
- Wang, Ming Xin Realizability conditions for fuzzy matrices, and their content. (Chinese. English summary) **86c:15022**
- Yamada, Takeo (with Luenberger, David G.) Generic properties of column-structured matrices. **86d:15014**
- secondary classifications (15A57)
- Alikakos, Nicholas D. (with Bates, P. W.) Estimates for the eigenvalues of the Jordan product of Hermitian matrices. **86b:15011a**
- (with Bates, P. W.) Erratum: "Estimates for the eigenvalues of the Jordan product of Hermitian matrices". **86b:15011b**
- Al'pin, Yu. A. The rank of a Hankel matrix. (Russian) **86m:15001**
- Bates, P. W. See Alikakos, Nicholas D., **86b:15011a** and **86b:15011b**
- Cederbaum, L. S. See Walter, O. et al., **86b:15014**
- Chang, Sin Chung Generalizations of two inequalities involving Hermitian forms. **86j:15013**
- Crawford, Charles R. Bounds for definite matrix pairs. **86j:15014**
- Everitt, W. N. (with Key, Jennifer D.) On some properties of matrices associated with linear ordinary quasidifferential expressions. **86d:34014**
- Fiedler, Miroslav Quasidirect decompositions of Hankel and Toeplitz matrices. **86c:15005**
- Gower, J. C. Properties of Euclidean and non-Euclidean distance matrices. **86j:62133**
- Graham, R. L. (with Sloane, N. J. A.) Anti-Hadamard matrices. **86i:15010**
- Guritan, Jaroslav The semigroup of general circulant matrices. (Russian and Slovak summaries) **86e:15016**
- Heinig, Georg (with Rost, Karla) \star Algebraic methods for Toeplitz-like matrices and operators. **86i:47034a**
- (with Rost, Karla) \star Algebraic methods for Toeplitz-like matrices and operators. **86i:47034b**
- (with Jungnickel, Uwe) On the Routh-Hurwitz and Schur-Cohn problems for matrix polynomials and generalized Bezoutians. **86k:12004**
- (with Rost, Karla) Fast inversion of Toeplitz-plus-Hankel matrices. **86m:15003**
- Johnson, Charles R. (with Rodman, L.) Convex sets of Hermitian matrices with constant inertia. **86f:15004**
- Jungnickel, Uwe See Heinig, Georg, **86k:12004**
- Key, Jennifer D. See Everitt, W. N., **86d:34014**
- Kimura, Yoshio A further consideration on the LeChatelier-Samuelson principle. **86c:90014**
- Lancaster, P. (with Lerer, L.; Tismenetsky, M.) Factored forms for solutions of $AX - XB = C$ and $X - AXB = C$ in companion matrices. **86b:15018**
- (with Róssa, P.) Eigenvectors of H -selfadjoint matrices. **86e:15011**
- Lerer, L. See Lancaster, P. et al., **86b:15018**
- Newman, Morris Matrix completion theorems. **86d:15009**
- Orlov, S. A. The J -modulus of J -contractive matrices. (Russian) **86a:47034**
- Pang, Ming Xian Some estimates of the eigenvalues of M -matrices. (Chinese. English summary) **86c:15007**
- Ran, A. C. M. (with Rodman, L.) The algebraic matrix Riccati equation. **86i:15007**
- Rodman, L. See Johnson, Charles R., **86f:15004** and Ran, A. C. M., **86i:15007**
- Rost, Karla See Heinig, Georg, **86i:47034a**; **86i:47034b** and **86m:15003**
- Róssa, P. See Lancaster, P., **86e:15011**
- Schirmer, J. See Walter, O. et al., **86b:15014**
- Sloane, N. J. A. See Graham, R. L., **86i:15010**
- Tismenetsky, M. See Lancaster, P. et al., **86b:15018**
- Trotter, Hale F. Eigenvalue distributions of large Hermitian matrices; Wigner's semicircle law and a theorem of Kac, Murdock, and Szegő. **86c:60055**
- Walter, O. (with Cederbaum, L. S.; Schirmer, J.) The eigenvalue problem for "arrow" matrices. **86b:15014**
- 15A60 Norms of matrices, numerical range, applications of functional analysis to matrix theory [See also 65F35, 65J05.]**
- Bakalary, Jerry K. (with Kala, Radosław) Range invariance of certain matrix products. **86a:15030**
- Bebiano, Natália On the trace of the product of two normal matrices. (See **88j:00013**)

- On the differentiability of the c -numerical range of a matrix A . **86a:15031**
- Chen, Gong Ning Some regularity conditions for matrices. (Chinese. English summary) **86b:15027**
- Friedland, S. Stable convex sets of matrices. **86a:15023**
- Gabriel, Richard Matrizen mit stationärer Diagonale bei unitärer Similarität. [Matrices with stationary diagonal under unitary similarity] **86c:15014**
- Goldberg, Moshe Multiplicativity of l_p norms for matrices. II. **86m:15019**
- Kala, Radosław See Bakalary, Jerzy K., **86a:15030**
- Kishka, Zeinbom See Sayyed, Kamel, **86c:15014**
- de Leeuw, Jan Fixed rank matrix approximation with singular weights matrices. **86i:15011**
- Li, Chi Kwong (with Tam, Tin Yau; Tsing, Nam Kiu) The generalized spectral radius, numerical radius and spectral norm. **86c:15015**
- Marek, I. Perron roots of a convex combination of a cone preserving map and its adjoint. **86h:15020**
- Rubio Flores, Agripina On the spectral representation of a linear operator T defined on a finite-dimensional linear space X . (Spanish) **86h:15021**
- Sayyed, Kamel (with Kishka, Zeinbom) A view on some topics of matrix functions. (Arabic summary) **86a:15014**
- Seneta, E. (with Tan, Choon Peng) The Euclidean and Frobenius ergodicity coefficients and spectrum localization. **86a:15033**
- Tam, Tin Yau See Li, Chi Kwong et al., **86c:15015**
- Tan, Choon Peng See Seneta, E., **86a:15033**
- Tsing, Nam Kiu See Li, Chi Kwong et al., **86c:15015**
- Uhlig, Frank The field of values of a complex matrix, an explicit description in the 2×2 case. **86j:15019**
- Vitória, José Matricial norms: some applications and open questions. (See **86g:00012c**)

secondary classifications (15A60)

- Au-Yeung, Yik Hoi On the convexity of numerical range in quaternionic Hilbert spaces. **86h:47007**
- Bhatia, Rajendra Variation of symmetric tensor powers and permanents. **86e:15006**
- Crawford, Charles R. Bounds for definite matrix pairs. **86j:15014**
- Déchamp-Gondim, Myriam (with Lust-Piquard, Françoise; Queffelec, Hervé) On the minorant properties in $C_p(H)$. **86h:47024**
- Li, Rong Hua See Ma, Si Liang, **86g:55108**
- Love, E. R. Inequalities between norms in sequence spaces. **86c:26023**
- Lust-Piquard, Françoise See Déchamp-Gondim, Myriam et al., **86h:47024**
- Ma, Si Liang (with Li, Rong Hua) On the local condition (J) for the uniform boundedness of the family of matrices $C^n(\theta, \Delta t)$. (Chinese) **86g:55108**
- Mathar, Rudolf The best Euclidean fit to a given distance matrix in prescribed dimensions. **86g:55084**
- Moon, Byung Soo Characterizations of order ideals and perfect subspaces in the ordered normed space of $n \times n$ Hermitian matrices. **86d:15012**
- Queffelec, Hervé See Déchamp-Gondim, Myriam et al., **86h:47024**
- Sun, Ji Guang On the perturbation of the eigenvalues of a normal matrix. (Chinese. English summary) **86d:15010**

15A63 Quadratic and bilinear forms, inner products [See mainly 11Exx.]

- Chabrilac, Yves (with Crouzeix, J.-P.) Definiteness and semidefiniteness of quadratic forms revisited. **86a:15033**
- Crouzeix, J.-P. See Chabrilac, Yves, **86a:15033**
- Fan, Ky An identity for symmetric bilinear forms. **86b:15028**
- Felg, E. (with Winograd, S.) On the direct sum conjecture. **86h:15022**
- Greub, W. H. (with Malsan, Jerry; Vanstone, J. R.) Groups preserving a class of bilinear functions. **86h:15023**
- Hill, Chün Jung On a theorem of M. Kobayashi. **86i:15015**
- Malsan, Jerry See Greub, W. H. et al., **86h:15023**
- Turisco, JoAnn S. A family of quadratic forms associated to quadratic mappings of spheres. **86j:15020**
- Vanstone, J. R. See Greub, W. H. et al., **86h:15023**
- Winograd, S. See Felg, E., **86h:15022**

secondary classifications (15A63)

- Adem, José On the Hurwitz problem over an arbitrary field. II. **86a:11014**
- Baesa, Ricardo On the Arf invariant of quadratic forms and of knots. **86j:11038**
- Egawa, Yoshimi Association schemes of quadratic forms. **86f:05018**
- Ferrer Llop, Jose (with Lusa, G.; Puerta Sales, Fernando) Study and classification of quadrics in \mathbb{R}^n by their associated metrics. (Spanish) **86b:51035**
- Friedlein, Helms-Reiner Normalformen für Bewegungen in hyperbolischen Räumen. (English summary) [Normal forms for motions in hyperbolic spaces] **86g:20058**
- Gow, Roderick (with Laffey, Thomas J.) Pairs of alternating forms and products of two skew-symmetric matrices. **86d:15006**
- Johnson, Charles R. (with Rodman, L.) Convex sets of Hermitian matrices with constant inertia. **86f:15004**
- Laffey, Thomas J. See Gow, Roderick, **86d:15006**
- Lam, Kee Yuen Some new results on composition of quadratic forms. **86e:11027**
- Lin, Chun Tu Extrema of quadratic forms and statistical applications. **86a:62083**
- Lusa, G. See Ferrer Llop, Jose et al., **86b:51035**
- Olkin, Ingram A probabilistic proof of a theorem of Schur. **86h:15017**
- Panov, A. A. Mixed discriminants connected with positive semidefinite quadratic forms. (Russian) **86j:15004**
- Puerta Sales, Fernando See Ferrer Llop, Jose et al., **86b:51035**
- Ran, A. C. M. (with Rodman, L.) Stability of invariant maximal semidefinite subspaces. I. **86j:15018a**
- Rao, Ravi A. Extendability of quadratic modules with sufficient Witt index. II. **86d:13010**
- Rodman, L. See Johnson, Charles R., **86f:15004** and Ran, A. C. M., **86j:15018a**

- Rollero, Aldo Observations on binary forms of degrees three and four. (Italian. English and French summaries) **86i:12004**
- Scharlau, Winfried ★ Quadratic and Hermitian forms. **86k:11023**
- Soong, T. T. A note on expectation of a random quadratic form. **86a:62085**
- Wagner, Richard C. On inner product spaces over Dedekind domains of characteristic two. **86a:11021**
- von Waldenfels, Wilhelm Positive and conditionally positive sesquilinear forms on anticommutative coalgebras. **86i:46078**

15A66 Clifford algebras, spinors

- Ablamowicz, R. (with Salingaros, N.) On the relationship between twistors and Clifford algebras. **86c:15024**
- Hestenes, David (with Sobczyk, Garret) ★ Clifford algebra to geometric calculus. **86g:15012**
- Salingaros, N. See Ablamowicz, R., **86c:15024**
- Seligman, George B. Higher even Clifford algebras. **86b:16020**
- Sobczyk, Garret See Hestenes, David, **86g:15012**

secondary classifications (15A66)

- Ahlfors, Lars V. Möbius transformations and Clifford numbers. **86g:20065**
- Baake, M. (with Reinicke, P.; Rittenberg, V.) Fierz identities for real Clifford algebras and the number of supercharges. **86i:81058**
- Bacry, Henri (with Boon, Michael) Harmonic analysis of boson algebras. (See **86i:81002**)
- Barut, A. O. See Baari, S. A., **86j:81048**
- Baari, S. A. (with Barut, A. O.) Relativistic quantum theory of fermions based on the Clifford algebra C_7 . **86j:81048**
- Benn, I. M. (with Tucker, R. W.) The differential approach to spinors and their symmetries. (Italian and Russian summaries) **86k:81104**
- Bohm, David J. (with Hiley, B. J.) Relativistic phase space arising out of the Dirac algebra. (See **86d:81002**)
- Boon, Michael See Bacry, Henri, **86i:81002**
- Braden, H. W. n -dimensional spinors: their properties in terms of finite groups. **86i:20020**
- Budinich, P. (with Bugajka, Krystyna) Spinors as fundamental objects. **86i:53015**
- Bugajka, Krystyna Internal structure of fermions. **86h:81062**
- See also Budinich, P., **86i:53015**
- Finkelstein, Robert J. (with Villalante, M.) Majorana spinors in higher-dimensional theories. **86c:83043**
- Greider, K. R. A unifying Clifford algebra formalism for relativistic fields. **86c:81036**
- Grunenfelder, Luitpold Clifford k -algebras and k^* -groups. **86c:13009**
- Halle, Darrell E. On the Clifford algebra of a binary cubic form. **86c:11028**
- Hasiewicz, Zbigniew (with Kwadniewski, A. K.; Morawiec, P.) Supersymmetry and Clifford algebras. **86j:17027**
- Hiley, B. J. See Bohm, David J., **86d:81002**
- Kauffman, Louis H. Transformations in special relativity. **86j:83004**
- Knus, M.-A. (with Paques, A.) Quadratic spaces with trivial Arf invariant. **86g:11024**
- Kustanheimo, Paul See Lounesto, Pertti, **86d:30077**
- Kwadniewski, A. K. See Hasiewicz, Zbigniew et al., **86j:17027**
- Lafontaine, J. Théorie algébrique des spineurs. [Algebraic theory of spinors] (See **86i:53020**)
- Lounesto, Pertti (with Kustanheimo, Paul) Spinor function theory. **86d:30077**
- Morawiec, P. See Hasiewicz, Zbigniew et al., **86j:17027**
- Moreno, Matias Closed formula for the product of n Dirac matrices. **86j:81052**
- Paques, A. See Knus, M.-A., **86g:11024**
- Reinicke, P. See Baake, M. et al., **86i:81058**
- Rittenberg, V. See Baake, M. et al., **86i:81058**
- Ryan, John Extensions of Clifford analysis to complex, finite-dimensional, associative algebras with identity. **86d:30078**
- Duality in complex Clifford analysis. **86j:30071**
- Salingaros, N. (with Wene, G. P.) The Clifford algebra of differential forms. **86m:58021**
- Tucker, R. W. See Benn, I. M., **86k:81104**
- Villalante, M. See Finkelstein, Robert J., **86c:83043**
- Wene, G. P. See Salingaros, N., **86m:58021**
- Zheleznorovich, V. A. ★ Теория спиноров и ее применение в физике и механике. (Russian) [Theory of spinors and its application in physics and mechanics] **86e:53009**

15A69 Multilinear algebra, tensor products

- Blokhuis, A. (with Seidel, J. J.) An introduction to multilinear algebra and some applications. **86e:15025**
- Hatvani, Ca. See Rendí, Dorina et al., **86i:15013**
- Kovačec, Alexander On positive definite differences of multilinear forms and their representation. **86i:15012**
- Pamfilos, Paris On the maximum rank of a tensor product. **86e:15026**
- Pate, Thomas H. Decomposability of symmetric multilinear functions. **86c:15016**
- Rendí, B. See Rendí, Dorina et al., **86i:15013**
- Rendí, Dorina (with Hatvani, Ca.; Rendí, B.) On multimorphism of linear spaces. **86i:15013**
- Seidel, J. J. See Blokhuis, A., **86e:15025**
- Xu, Yong Hua Equivalence of tensor products of vector spaces. (Chinese) (Not in MR)

secondary classifications (15A69)

- Binding, Paul Indicial equivalents of multiparameter definiteness conditions in finite dimensions. **86m:47018**
- Egawa, Yoshimi (with Suzuki, Hiroshi) Automorphism groups of Σ_{n+1} -invariant trilinear forms. **86d:20007**
- (with Suzuki, Hiroshi) Automorphism groups of multilinear mappings. **86e:20004**
- Holmquist, Björn On the leading principal minors of direct products. **86h:15005**

- Merria, Russell (with Watkins, William Earl) Inequalities and identities for generalized matrix functions. **86e:15007**
- Movsiseyan, A. M. Convolution identities on a nilpotent subalgebra of a second-order matrix algebra. (Russian. Armenian summary) **86h:15013**
- Northcott, D. G. ★ Multilinear algebra. **86m:13001**
- Suzuki, Hiroshi See Egawa, Yoshiaki, **86d:20007** and **86e:20004**
- Szász, Árpád (with Szász, G.) Multilinear relations. **86j:47003**
- Szász, G. See Szász, Árpád, **86j:47003**
- Takemura, Akimichi On the equivalence of proportional cell frequencies and orthogonality of interaction spaces in n -way ANOVA. **86m:62133**
- Watkins, William Earl See Merria, Russell, **86e:15007**

15A72 Vector and tensor algebra, theory of invariants

- González de Posada, F. ★ Estructuras algebraicas tensoriales. (Spanish) [Tensor algebra structures] **86e:15027**

secondary classifications (15A72)

- Adamovich, O. M. (with Golovina, E. O.) Simple linear Lie groups having a free algebra of invariants. **86a:14044**
- Agasoka, Yoshio On the curvature of Riemannian submanifolds of codimension 2. **86g:53059**
- Almkvist, Gert (with Dicks, Warren; Formanek, Edward) Hilbert series of fixed free algebras and noncommutative classical invariant theory. **86k:16001**
- Bacławski, Kenneth (with Towber, Jacob) The shape-algebra and standard bases for G_2 . **86g:20054**
- (Boffi, Glandomenico) See Procesi, Claudio, **86d:14045**
- Carlson, Donald E. See Hoger, Anne, **86a:73004**
- Clausen, Michael Dominance orders, Capelli operators, and straightening of bideterminants. **86a:05008**
- Dadok, Jiri (with Kac, Victor G.) Polar representations. **86e:14023**
- Dark, Rex (with Newell, Martin) Isotropic tensors and symmetric groups. **86a:20048**
- Dicks, Warren See Almkvist, Gert et al., **86k:16001**
- Formanek, Edward See Almkvist, Gert et al., **86k:16001**
- Garsia, A. M. (with Stanton, Dennis) Group actions of Stanley-Reisner rings and invariants of permutation groups. **86f:20003**
- Golovina, E. O. See Adamovich, O. M., **86a:14044**
- Hanlon, Phil On the construction of the maximal weight vectors in the tensor algebra of $gl_n(\mathbb{C})$. **86b:20060**
- Hers, Carl Alternating 3-forms and exceptional simple Lie groups of type G_2 . **86a:22012**
- Hoger, Anne (with Carlson, Donald E.) Determination of the stretch and rotation in the polar decomposition of the deformation gradient. **86a:73004**
- Ignatenko, V. F. Some problems in the geometric theory of invariants of groups generated by orthogonal and oblique reflections. (Russian) **86i:14003**
- Jakubowicz, A. (with Stygar, D.) Orbits determined by the action of the general linear group on a tensor space of type $(0, 2)$ over a three-dimensional vector space. **86m:53026**
- Kac, Victor G. See Dadok, Jiri, **86e:14023**
- Kobayashi, Zenji Polynomial invariants of Euclidean Lie algebras. **86h:17019**
- Lancaster, Glenn (with Towber, Jacob) Representation-functors and flag-algebras for the classical groups. II. **86j:20037**
- Mumkin, V. B. Matrices associated with groups of permutations. (Russian) **86g:20005**
- (Mumford, David) See Ness, Linda, **86c:14010**
- Nakajima, Haruhisa Quotient singularities which are complete intersections. **86h:14039**
- Ness, Linda A stratification of the null cone via the moment map. **86c:14010**
- Newell, Martin See Dark, Rex, **86a:20048**
- Pate, Thomas H. Hypersurfaces containing flat subspaces. **86d:14007**
- Procesi, Claudio ★ A primer of invariant theory. **86d:14045**
- Computing with 2×2 matrices. **86g:16022**
- Rychlewski, Jan Studies on the distance between symmetric Euclidean tensors of the second rank. (Russian) **86g:53017**
- Stanton, Dennis See Garsia, A. M., **86f:20003**
- Stygar, D. See Jakubowicz, A., **86m:53026**
- Towber, Jacob See Bacławski, Kenneth, **86g:20054** and Lancaster, Glenn, **86j:20037**
- Zaleskii, A. E. The fixed algebra of a group generated by reflections is not always free. **86a:20051**

15A75 Exterior algebra, Grassmann algebras

- Rendi, B. See Rendi, Dorina, **86g:15013**
- Rendi, Dorina (with Rendi, B.) On the rank and canonical forms of exterior forms of degree p . **86g:15013**
- Revoý, Philippe Formes trilineaires alternées de rang inférieur ou égal à 7. [Alternating trilinear forms of rank less than or equal to 7] (See **86m:00012**)
- Yastrebov, A. V. Characteristic properties of certain operations in the theory of skewsymmetric functions. (Russian) **86m:15020**

secondary classifications (15A75)

- Backhouse, N. B. (with Fellouris, A. G.) On the superdeterminant function for supermatrices. **86c:58014**
- (with Fellouris, A. G.) Grassmann analogs of classical matrix groups. **86i:22039**
- Blökhuis, A. (with Seidel, J. J.) An introduction to multilinear algebra and some applications. **86e:15025**
- Fellouris, A. G. See Backhouse, N. B., **86c:58014** and **86i:22039**
- Giannakopoulos, C. (with Kalogeropoulos, Grigoris; Karcianas, N.) The Grassmann variety of nondynamic compensators: the determinantal assignment problem of linear systems. **86k:14037**
- Kalogeropoulos, Grigoris See Giannakopoulos, C. et al., **86k:14037**
- Karcianas, N. See Giannakopoulos, C. et al., **86k:14037**
- Seidel, J. J. See Blökhuis, A., **86e:15025**

- Varouchas, J. L'algèbre extérieure d'un espace hermitien. [The exterior algebra of a Hermitian space] **86i:32056c**

15A78 Other algebras built from modules

- El-Agawany, M. (with Micali, Artibano) Algèbre mésonique d'un module. (English summary) [The meson algebra of a module] **86j:15021a**
- Algèbre mésonique d'un module. II. [The meson algebra of a module. II] **86j:15021b**
- Micali, Artibano See El-Agawany, M., **86j:15021a**

15A90 Applications to physics

- Solomon, Frederick A theorem concerning Lorentz transformations. **86b:15030**

secondary classifications (15A90)

- Ablamowicz, R. (with Salingaros, N.) On the relationship between twistors and Clifford algebras. **86e:15024**
- Audit, Philippe Functions of infinite generalized cyclic matrices. **86m:82046**
- Barut, A. O. See Basri, S. A., **86j:81048**
- Basri, S. A. (with Barut, A. O.) Relativistic quantum theory of fermions based on the Clifford algebra C_7 . **86j:81048**
- Ben-Menahem, Ari Wigner's rotation revisited. **86a:81033**
- Bohm, David J. (with Hiley, B. J.) Relativistic phase space arising out of the Dirac algebra. (See **86d:81002**)
- Eganova, I. A. (with Shirokov, M. I.) Orthomatrices and octonions. **86b:15019**
- Ermolaev, E. A. Quaternions of rank $r = 1, 2, \dots$ and the Bargmann-Wigner equations. (Russian. English summary) **86i:81064**
- Falk, S. Expansion von Polynomen und Polynommatrizen. (English and Russian summaries) [Expansion of polynomials and polynomial matrices] **86f:70019**
- Hestenes, David (with Sobczyk, Garret) ★ Clifford algebra to geometric calculus. **86j:15012**
- Hiley, B. J. See Bohm, David J., **86d:81002**
- Ismailova, N. A. (with Kondrashov, V. E.) The use of chasing coefficients of spectral systems for estimation of the spectrum of some matrices. (Russian) **86j:85044**
- Kondrashov, V. E. See Ismailova, N. A., **86j:85044**
- Matolci, T. On material frame-indifference. **86m:73077**
- Perko, L. M. (with Walter, E. L.) Regular polygon solutions of the N -body problem. **86g:70004**
- Salingaros, N. See Ablamowicz, R., **86e:15024**
- Shirokov, M. I. See Eganova, I. A., **86b:15019**
- Sobczyk, Garret See Hestenes, David, **86j:15012**
- Walter, E. L. See Perko, L. M., **86g:70004**
- Zhelezorovich, V. A. ★ Теория спиноров и ее применение в физике и механике. (Russian) [Theory of spinors and its application in physics and mechanics] **86e:53009**

15A99 Miscellaneous topics

- Bogucki, Zdzisław Introduction to the calculation of z -dimensional matrices. I. (Polish. English and Russian summaries) **86j:15022**
- Hashimoto, Hiroshi Decomposition of fuzzy matrices. **86c:15017**
- Kim, Jin Bai Idempotents and inverses in fuzzy matrices. **86h:15024**
- Li, Xiang Hao Fuzzy similarity matrix equations of varied order. (Chinese. English summary) **86b:15031**
- Oshime, Yoritama Nonlinear Perron-Frobenius problem for weakly contractive transformations. **86e:15028**
- Yu, Yan Dong On the realizable L -fuzzy symmetric matrix. (Chinese summary) **86b:15032**

secondary classifications (15A99)

- Barnett, S. Multiplication of generalized polynomials, with applications to classical orthogonal polynomials. **86c:42018**
- Benson, David B. Counting paths: nondeterminism as linear algebra. **86h:68044**
- Cao, Zhi Qiang (with Kim, K. H.; Roush, F. W.) ★ Incline algebra and applications. **86e:06001**
- Field, D. A. Convergence theorems for matrix continued fractions. **86a:39006**
- Geramita, Joan M. (with Pullman, N. J.) Classifying the asymptotic behavior of some linear models. **86g:92008**
- Ikrarov, Kh. D. Multiplication of a perforated matrix by a vector. (Russian) **86d:68032**
- Kim, K. H. See Cao, Zhi Qiang et al., **86e:06001**
- Marsaglia, George (with Tsay, Liang-Huei) Matrices and the structure of random number sequences. **86g:65018**
- Mathoka, Marian Finite fuzzy cone. **86c:03051**
- Ozeki, Michio A matrix partition problem. **86b:11019**
- Pullman, N. J. See Geramita, Joan M., **86g:92008**
- Roush, F. W. See Cao, Zhi Qiang et al., **86e:06001**
- Tsay, Liang-Huei See Marsaglia, George, **86g:65018**
- Wu, Shou Zhi On the discrimination of singularity of grey matrix. **86c:93017**

16-XX ASSOCIATIVE RINGS AND ALGEBRAS (For the commutative case, see 13-XX.)

- Andrunakievich, V. A. (with Ryabukhin, Yu. M.) Free commutative quasiregular algebras and algebras without quasiregular subalgebras. (Russian) (Not in MR)
- Ryabukhin, Yu. M. See Andrunakievich, V. A. (Not in MR)

secondary classifications (16-XX)

- Lyubetskii, V. A. Some algebraic questions of nonstandard analysis. (Russian) **86e:03063**

16-01 Elementary exposition; textbooks

secondary classifications (16-01)

- García, Arnaldo. See Lequain, Yves, **86j:00004**
 Grove, Larry C. ★ Algebra. **86j:00002**
 Lang, Serge. ★ Algebra. **86j:00003**
 Lequain, Yves (with García, Arnaldo) ★ Álgebra: uma introdução. (Portuguese) [An introduction to algebra] **86j:00004**
 Northcott, D. G. ★ Multilinear algebra. **86m:13001**

16-02 Advanced exposition (research surveys, monographs, etc.)

- Bekdar, K. I. (with Latyshev, V. N.; Markov, V. T.; Mikhailov, A. V.; Skorniyakov, L. A.; Tuganbaev, A. A.) Associative rings. (Russian) **86h:16001**
 Krause, Günter (with Lenagan, T. H.) ★ Growth of algebras and Gelfand-Kirillov dimension. **86g:16001**
 Latyshev, V. N. See Bekdar, K. I. et al., **86h:16001**
 Lenagan, T. H. See Krause, Günter, **86g:16001**
 Markov, V. T. See Bekdar, K. I. et al., **86h:16001**
 Mikhailov, A. V. See Bekdar, K. I. et al., **86h:16001**
 Passman, Donald S. ★ The algebraic structure of group rings. **86j:16001**
 Skorniyakov, L. A. See Bekdar, K. I. et al., **86h:16001**
 Tuganbaev, A. A. See Bekdar, K. I. et al., **86h:16001**

secondary classifications (16-02)

- Faith, Carl (with Page, Stanley S.) ★ FPF ring theory. **86f:16014**
 Janssen, Jens Carsten ★ Einhüllende Algebren halbeinfacher Lie-Algebren. (German) [Enveloping algebras of semisimple Lie algebras] **86c:17011**
 Page, Stanley S. See Faith, Carl, **86f:16014**

16-03 Historical (must also be assigned at least one classification number from Section 01)

secondary classifications (16-03)

- Parshall, Karen Hunger In pursuit of the finite division algebra theorem and beyond: Joseph H. M. Wedderburn, Leonard E. Dickson, and Oswald Veblen. **86c:01045**
 Joseph H. M. Wedderburn and the structure theory of algebras. **86h:01050**
 (Wedderburn, J. H. M.) See Parshall, Karen Hunger, **86h:01050**

16-04 Explicit machine computation and programs (not the theory of computation or programming)

secondary classifications (16-04)

- Stickel, Mark E. A case study of theorem proving by the Knuth-Bendix method: discovering that $z^3 = z$ implies ring commutativity. **86j:68113**

16-06 Proceedings, conferences, etc.

secondary classifications (16-06)

- (Montgomery, Susan) See Group actions on rings, **86g:16002**
 (Reiner, Irving) See Orders and their applications, **86g:16003**
 (Roggenkamp, K. W.) See Orders and their applications, **86g:16003**
 Bibanda, ★ Bibandas. [Bibanda]. **86i:16001**
 Brunswick, Maine ★ Group actions on rings. **86g:16002**
 Conference:
 AMS-IMS-SIAM, group actions on rings ★ Group actions on rings. **86g:16002**
 Orders and their applications ★ Orders and their applications. **86g:16003**
 Group actions on rings ★ Group actions on rings. **86g:16002**
 Oberwolfach ★ Orders and their applications. **86g:16003**
 Orders and their applications ★ Orders and their applications. **86g:16003**

16A03 Graded algebras, rings and modules

- Jespers, E. See Wauters, P., **86h:16002**
 Marlowe, Thomas The diagonal of a pointed coalgebra and incidence-like structure. **86j:16002**
 Năstăsescu, Constantin Group rings of graded rings. Applications. **86f:16001**
 (with Van Oystaeyen, F.) Graded rings with finiteness conditions. II. **86d:16001**
 Smythe, N. Growth functions and Euler series. **86f:16002**
 Van Oystaeyen, F. See Năstăsescu, Constantin, **86d:16001**
 Wauters, P. (with Jespers, E.) Asano-orders and graded rings. **86h:16002**

secondary classifications (16A03)

- Artamonov, V. A. Projective modules over universal enveloping algebras. (Russian) **86f:17006**
 Billington, Nicholas Growth of groups and graded algebras. **86e:20039a**
 Erratum: "Growth of groups and graded algebras". **86e:20039b**
 Donovan, P. W. Spectral duality for block cohomology. **86d:20013**
 El-Agawany, M. (with Micali, Artibano) Algèbre mésonique d'un module. (English summary) [The meson algebra of a module] **86j:15021a**
 Algèbre mésonique d'un module. II. [The meson algebra of a module. II] **86j:15021b**
 Gordon, Robert Group-gradings of categories. **88k:16038**

- Lubotaky, Alexander (with Magid, Andy R.) Cohomology, Poincaré series, and group

algebras of unipotent groups. **86h:20063**

Magid, Andy R. See Lubotaky, Alexander, **86h:20063**

Micali, Artibano See El-Agawany, M., **86j:15021a**

Năstăsescu, Constantin (with Van Oystaeyen, F.) The strongly prime radical of graded rings. **86g:16011**

(with Raianu, Șerban) Gabriel dimension of graded rings. **86f:16024**

(with Van Oystaeyen, F.) A note on the socle of graded modules. **86e:16012**

Passman, Donald S. Cancellative group-graded rings. **86f:16011**

Raianu, Șerban See Năstăsescu, Constantin, **86f:16024**

Van den Berg, Michel Graded Dedekind rings. **86d:16006**

Van Oystaeyen, F. Note on central class groups of orders over Krull domains. **86e:16009**
 See also Năstăsescu, Constantin, **86e:16012** and **86g:16011**

16A04 Noncommutative principal ideal rings, rings with a division algorithm

- Cohn, P. M. (with Schofield, A. H.) Two examples of principal ideal domains. **86b:16001**
 Gardner, B. J. (with Stewart, Patrick N.) Injectives for ring monomorphisms with accessible images. II. **86f:16003**
 Schofield, A. H. See Cohn, P. M., **86b:16001**
 Stewart, Patrick N. See Gardner, B. J., **86f:16003**

secondary classifications (16A04)

- Diab, Vlastimil (with Ringel, Claus Michael) A class of bounded hereditary Noetherian domains. **86h:16021**

Ringel, Claus Michael See Diab, Vlastimil, **86h:16021**

16A05 Skew polynomial rings, power series rings

- Bell, Allen D. When are all prime ideals in an Ore extension Goldie? **86j:16003**
 Ferrero, Miguel (with Kishimoto, Kazuo) On differential rings and skew polynomials. **86g:16004**
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16A26 Group rings of finite groups [See also 20C05; for semigroup rings, see 20M25.]

- Benson, David John (with Parker, R. A.) The Green ring of a finite group. 86a:16013
- Lambda and psi operations on Green rings. 86g:16013
- Karpilovsky, G. On the isomorphism of commutative group algebras. 86d:16013
- Külshammer, Burkhard Bemerkungen über die Gruppenalgebra als symmetrische Algebra. IV. [Remarks on the group algebra as a symmetric algebra. IV] 86g:16014
- Miyamoto, Masahiko Grothendieck groups of integral nilpotent group rings. 86h:16012
- Parker, R. A. See Benson, David John, 86a:16013
- Polcino Miles, Francisco César (with Sehgal, Sudarshan K.) Torsion units in integral group rings of metacyclic groups. 86i:16009
- Razmyalov, Yu. P. See Zyrichev, A. N., 86j:16013
- Sehgal, Sudarshan K. See Polcino Miles, Francisco César, 86i:16009
- Zyrichev, A. N. (with Razmyslov, Yu. P.) Skew-symmetric elements in the group algebra of a symmetric group. (Russian) 86j:16013

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- Broué, Michel On a theorem of G. Robinson. 86a:20010
- Carlson, Jon F. The cohomology ring of a module. 86f:20062
- tom Dieck, Tammo Über λ -Ringstrukturen auf dem Burnside-Ring. [On λ -ring structures on the Burnside ring] 86e:20014
- Guralnick, Robert M. (with Wales, D. B.) Subgroups inducing the same permutation representation. II. 86m:20006
- Koshitani, Shigeo A remark on the Jacobson radical of a block ideal in a finite p -solvable group. 86f:20005
- Lorenz, Martin On Loewy lengths of projective modules for p -solvable groups. 86k:20001
- Mollin, R. A. Uniform distribution of Hasse invariants. 86g:11085
- More on the Schur group of a commutative ring. 86j:16011
- Motose, Kaoru On a theorem of Y. Tashima. 86c:20010
- Năstăsescu, Constantin Group rings of graded rings. Applications. 86f:16001
- Passman, Donald S. ★ The algebraic structure of group rings. 86j:16001
- Roggenkamp, K. W. Automorphisms and isomorphisms of integral group rings of finite groups. (See 86b:20002)
- Sawada, Hideki On certain infinite-dimensional contragredient modules. 86d:20008
- Shinya, Kazunari On the structure of the augmentation quotients relative to an N_p -series. 86h:20006
- Taylor, Martin J. ★ Classgroups of group rings. 86e:11100
- Theohari-Apostolidis, Th. On integral representations of twisted group rings. 86e:20009
- Wales, D. B. See Guralnick, Robert M., 86m:20006

16A27 Group rings of infinite groups [See also 20C07; for semigroup rings, see 20M25.]

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- Bhandari, Ashwani K. Some remarks on the unit groups of integral group rings. 86e:16017
- Bovdi, A. A. (with Gudivok, P. M.; Semirov, M. S.) Normal group rings. (Russian) 86h:16013
- Brookes, C. J. B. Ideals in group rings of soluble groups of finite rank. 86j:16014
- (with Brown, Kenneth A.) Primitive group rings and Noetherian rings of quotients. 86d:16014
- Brown, Kenneth A. See Brookes, C. J. B., 86d:16014
- Gonçalves, Jairo Zacarias Normal and subnormal subgroups in the group of units of group rings. 86k:16006
- Gudivok, P. M. See Bovdi, A. A. et al., 86h:16013
- Jespers, E. (with Smith, P. F.) Integral group rings of torsion-free polycyclic-by-finite groups are maximal orders. 86d:16015
- Karpilovsky, G. On group rings of ordered groups. 86k:16006
- Kollikov, K. Kh. Ideals of twisted group rings. (Russian) 86i:16010
- Krempa, Jan (with Okniński, Jan) Group rings which are Jacobson rings. 86e:16018
- Lorenz, Martin Group rings and division rings. 86d:16016
- On the transcendence degree of group algebras of nilpotent groups. 86c:16005
- Makar-Limanov, L. On group rings of nilpotent groups. 86c:16006

- Molloy, T. Zh. Invariants of pairs of semisimple group algebras of periodic abelian groups. (Russian) 86a:16014
- Ninomiya, Yasuaki On the radical of an infinite group algebra. 86g:16015
- Okniński, Jan See Krempa, Jan, 86e:16018
- Passman, Donald S. Group rings of polycyclic groups. 86e:16019
- Cancellative group-graded rings. 86f:16011
- Rakhnev, A. Some properties of group ξ -rings. (Bulgarian. English and Russian summaries) 86k:16007
- Semirov, M. S. See Bovdi, A. A. et al., 86h:16013
- Smith, P. F. Some examples of maximal orders. 86i:16011
- See also Jespers, E., 86d:16015
- Vasanthan, W. B. On zero-divisors in reduced group rings over ordered groups. 86b:16007
- Wehrfritz, B. A. F. Units in finite extensions of rings. 86i:16012

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- Brookes, C. J. B. The primitivity of group rings of soluble groups with trivial periodic radical. 86k:20002
- Buzási, Károly See Berman, S. D., 86a:20007
- Cliff, Gerald H. Ranks of projective modules of group rings. 86e:20008
- Duponcheel, Luc Non-Archimedean induced group algebra modules. 86f:22007
- Jespers, E. (with Smith, P. F.) Group rings and maximal orders. 86e:16010
- Khambadkone, Meera Subgroup ideals in group rings. I. 86g:20010
- On the structure of augmentation ideals in group rings. 86g:20011
- Lichtman, A. I. On matrix rings and linear groups over fields of fractions of group rings and enveloping algebras. II. 86a:16019
- Năstăsescu, Constantin $\Sigma(\Delta)$ -injective modules over a strongly graded ring. 86g:16020
- Passman, Donald S. ★ The algebraic structure of group rings. 86j:16001
- On the Goldie rank of group algebras. 86i:20016
- Sawada, Hideki On certain infinite-dimensional contragredient modules. 86d:20008
- Shapiro, Jay The Krull dimension of twisted group rings. 86h:16024
- Smith, P. F. See Jespers, E., 86e:16010

16A28 Rings with involution [See also 46Kxx.]

- Baxter, Willard E. (with Martindale, Wallace S., III) The extended centroid in semiprime rings with involution. 86i:16013
- Beidar, K. I. (with Mikhalev, A. V.) Orthogonal completeness and minimal prime ideals. (Russian. English summary) 86i:16014
- Bergen, Jeffrey (with Lanski, Charles) Annihilators in rings with involution. 86j:16015
- Lanski, Charles See Bergen, Jeffrey, 86j:16015
- Li, Ch'iu K'un See Li, Pai Fei, 86k:16008
- Li, Pai Fei (with Li, Ch'iu K'un) Projections in simple Artinian rings. 86k:16008
- Martindale, Wallace S., III See Baxter, Willard E., 86i:16013
- Mikhalev, A. V. See Beidar, K. I., 86i:16014
- Niu, Feng Wen Rings with involution whose symmetric elements are G -invertible. 86k:16009
- Streb, Walter Invariante Untergruppen in Ringen mit Involution. II. [Invariant subgroups in rings with involution. II] 86e:16020
- Abbildungen auf Ringen insbesondere mit Involution. [Mappings on rings, especially with involution] 86d:16017
- Yamada, Miyuki On the multiplicative semigroups of regular rings with special involution. 86m:16004

secondary classifications (16A28)

- Choate, David Algebras generated by symmetric idempotents. 86b:16031
- Fahmy, Mohamed H. See Fisher, Joe W., 86j:16032
- Fisher, Joe W. (with Fahmy, Mohamed H.) On center-like elements in rings. 86j:16032
- Giambruno, Antonino (with Regev, A.) Wreath products and P.I. algebras. 86e:16027
- Haile, Darrell E. On the corestriction homomorphism and generalized involutions of the second kind. 86i:16018
- Nemytov, A. I. (with Solov'ev, Yu. P.) BN -pairs and Hermitian K -theory. (Russian) 86m:18008
- Regev, A. See Giambruno, Antonino, 86e:16027
- Scharlau, Winfried ★ Quadratic and Hermitian forms. 86k:11022
- Solov'ev, Yu. P. See Nemytov, A. I., 86m:18008

16A30 von Neumann regular rings and their generalizations [See also 06Cxx, 06Exx.]

- Baccella, Giuseppe Generalized V -rings and von Neumann regular rings. 86g:16016
- Español, L. Note on the Pierce representation of a ring. (Spanish. English summary) (See 86h:00090b)
- Kambara, Hikoji (with Kobayashi, Shigeru) On regular self-injective rings. 86e:16021
- Kobayashi, Shigeru See Kambara, Hikoji, 86e:16021
- Menal, Pere Tensor products of regular rings. (Spanish. English summary) (See 86g:00012a)
- Pillay, Poobalan A note on polynomial rings over von Neumann regular rings. 86m:16005
- Toffalori, Carlo Separably closed regular rings. (Italian. English summary) 86e:16022
- Yue Chi Ming, Roger On von Neumann regular rings. X. 86k:16010b
- On von Neumann regular rings. IX. 86k:16010a
- On self-injectivity and strong regularity. 86h:16014
- On regular rings and continuous rings. III. 86k:16011

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- Camillo, V. P. On Zimmermann-Huisgen's splitting theorem. 86i:16034

- Day, Alan Applications of coordinatization in modular lattice theory: the legacy of J. von Neumann. **86g:06016**
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- Page, Stanley S. Asumaya algebras and the Brauer group of FPF rings. **86d:16007**
- Trlifaj, Jan Ext and von Neumann regular rings. **86g:16038**

16A32 Idempotents in rings [See also 06Exx.]

- Hirano, Yasuyuki (with Tominaga, Hisao) On simple ring extensions generated by two idempotents. **86f:16012**
- Őhori, Masayuki On noncommutative generalized p.p. rings. **86d:16018**
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- Choate, David Algebras generated by symmetric idempotents. **86b:16031**
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- Motals de Narbonne, Lucie Anneaux semi-commutatifs et unisériels; anneaux dont les idéaux principaux sont idempotents. [Semicommutative uniserial rings; rings whose principal ideals are idempotent] **86h:16007**

16A33 Noetherian rings

- Beachy, John A. Stable torsion radicals over Noetherian rings. **86i:16015**
- Brown, Kenneth A. (with Warfield, R. B., Jr.) Krull and global dimensions of fully bounded Noetherian rings. **86d:16019**
- Chatters, A. W. (with Hajarnavis, C. R.) Noetherian rings with projective Jacobson radical. **86g:16017**
- Golan, Jonathan S. Minimal injective resolutions and Bass invariants of modules over left stable left Noetherian rings. **86d:16021**
- Goodearl, K. R. (with Small, Lance W.) Krull versus global dimension in Noetherian P.I. rings. **86d:16020**
- Hajarnavis, C. R. See Chatters, A. W., **86g:16017**
- Müller, Bruno J. Links between maximal ideals in bounded Noetherian prime rings of Krull dimension one. **86k:16012**
- Munson, Ian M. Noetherian subrings of quotient rings. **86d:16022**
- Okado, Morihito On the decomposition of extending modules. **86k:16013**
- Small, Lance W. See Goodearl, K. R., **86d:16020**
- Smith, Martha K. Semi-invariant rings. **86g:16018**
- Stafford, J. T. (with Warfield, R. B., Jr.) Constructions of hereditary Noetherian rings and simple rings. **86j:16016**
- On the ideals of a Noetherian ring. **86e:16023**
- Warfield, R. B., Jr. See Brown, Kenneth A., **86d:16019** and Stafford, J. T., **86j:16016**
- Zhu, Sui Cai A property of n -ary relation ring. **86k:16014**

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- Albu, Toma Certain Artinian lattices are Noetherian. Applications to the relative Hopkins-Levitzki theorem. **86m:06014**
- Brookes, C. J. B. (with Brown, Kenneth A.) Primitive group rings and Noetherian rings of quotients. **86d:16014**
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- Hudry, A. Sur une classe d'algèbres filtrées. (English summary) [On a class of filtered algebras] **86d:17009**
- Krause, Günter See Goldie, Alfred, **86d:16003**
- Michler, Gerhard O. (with Müller, Bruno J.) The maximal regular Ore set of a Noetherian ring. **86a:16005**
- Müller, Bruno J. See Michler, Gerhard O., **86a:16005**
- Ribenboim, P. The algebra of functions on a graph. **86m:05049**
- Shapiro, Jay Critical series over stable Noetherian rings with applications to prime principal right ideal rings. **86i:16031**
- Stigurdson, Gunnar Differential operator rings whose prime factors have bounded Goldie dimension. **86e:16004**
- Small, Lance W. (with Stafford, J. T.; Warfield, R. B., Jr.) Affine algebras of Gelfand-Kirillov dimension one are PI. **86g:16025**
- Stafford, J. T. Nonholonomic modules over Weyl algebras and enveloping algebras. **86h:17009**
- See also Small, Lance W. et al., **86g:16025**
- Warfield, R. B., Jr. See Small, Lance W. et al., **86g:16025**

16A34 Rings with annihilator conditions, chain conditions (Goldie rings)

- Ánh, Phạm Ngoc MHL-Ringe mit Artinschem Radikal. [MHL-rings with Artinian radical] **86g:16019**
- Chen, Ji Mian A simple proof of Y. H. Xu's theorem. (Chinese) **86d:16023**
- Groenewald, N. J. A note on extensions of Baer and P.P.-rings. **86e:16024**
- Hagheny, A. The canonical topology of certain rings. **86k:16015**
- Hajarnavis, C. R. (with Norton, N. C.) On dual rings and their modules. **86i:16016**
- Hannah, John (with O'Meara, K. C.) Nonsingular rings with a countable-dimensional annihilator base. **86a:16015**
- Liu, Shao Xue Note on a condition for Goldie rings. (Chinese. English summary) **86j:16017**
- Motamed, M. Decomposition of semiprime rings with d.c.c. on right annihilators. **86h:16015**
- Năstăsescu, Constantin $\Sigma(\Delta)$ -injective modules over a strongly graded ring. **86g:16020**
- Ng, Seong Nam (1,1) algebras with minimum condition. **86a:16016**
- Norton, N. C. See Hajarnavis, C. R., **86i:16016**
- O'Meara, K. C. See Hannah, John, **86a:16015**

- Xu, Yong Hua On a condition for Goldie rings. (Chinese) (Not in MR)

secondary classifications (16A34)

- Bell, Allen D. When are all prime ideals in an Ore extension Goldie? **86j:16003**
- Benander, B. A. Finite σ -length and σ -Artinian rings. **86f:16006**
- Chung, L. O. (with Kobayashi, Yuji) Nil derivations and chain conditions in prime rings. **86h:16034**
- Grzeszczuk, P. (with Puczyłowski, E. R.) On infinite Goldie dimension of modular lattices and modules. **86f:06019**
- Isawa, Tatsuo Composition series relative to a module. **86d:16035**
- Johns, Baxter See Tominaga, Hisao, **86e:16040**
- Kobayashi, Yuji See Chung, L. O., **86h:16034**
- Masaike, Kanzo Δ -injective modules and QF-3 endomorphism rings. **86e:16034**
- Năstăsescu, Constantin (with Van Oystaeyen, F.) Graded rings with finiteness conditions. II. **86d:16001**
- Őhori, Masayuki On noncommutative generalized p.p. rings. **86d:16018**
- Puczyłowski, E. R. See Grzeszczuk, P., **86f:06019**
- Tominaga, Hisao (with Johns, Baxter) Note on right σ -idempotent ideals. **86e:16040**
- Van Oystaeyen, F. See Năstăsescu, Constantin, **86d:16001**
- Zhu, Sui Cai A property of n -ary relation ring. **86k:16014**

16A35 Artinian rings

- Bünnemann, Dieter Hereditary torsion theories and Auslander-Reiten sequences. **86a:16017**
- Camillo, V. P. Inducing lattice maps by semilinear isomorphisms. **86e:16025**
- Dräxler, Peter Verallgemeinerte Fasersummen und Darstellungen geordneter Mengen. [Generalized fiber sums and representations of ordered sets] **86d:16024**
- Green, Edward L. (with Gustafson, William H.; Zacharia, Dan) Artin rings of global dimension two. **86d:16025**
- Gustafson, William H. See Green, Edward L. et al., **86d:16025**
- Oshiro, Kiyochi Lifting modules, extending modules and their applications to QF-rings. **86b:16008a**
- Lifting modules, extending modules and their applications to generalized uniserial rings. **86b:16008b**
- Sato, Hideo Self-injective dimension of serial rings. **86f:16013**
- Wauters, P. Strongly G -graded rings with component of degree e a semisimple Artinian ring. **86e:16026**
- Wisbauer, Robert Zur Brauer-Thrall-Vermutung für Ringe. [On the Brauer-Thrall conjecture for rings] **86k:16016**
- Zacharia, Dan See Green, Edward L. et al., **86d:16025**

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- Albu, Toma Certain Artinian lattices are Noetherian. Applications to the relative Hopkins-Levitzki theorem. **86m:06014**
- Bergman, Clifford See Hogben, L., **86g:06010**
- Hirano, Yasuyuki (with Tominaga, Hisao) On simple ring extensions generated by two idempotents. **86f:16012**
- Hogben, L. (with Bergman, Clifford) Deductive varieties of modules and universal algebras. **86g:06010**
- Iwanaga, Yasuo Some special class of Artin rings of finite type. **86c:16012**
- Skowroński, Andrzej On the structure of indecomposable modules over Artin algebras. **86b:16017**
- Sumioka, Takeshi Tachikawa's theorem on algebras of left colocal type. **86a:16028**
- Tominaga, Hisao See Hirano, Yasuyuki, **86f:16012**

16A36 Frobenius algebras, quasi-Frobenius rings and their generalizations

- Faith, Carl (with Page, Stanley S.) \star FPF ring theory. **86f:16014**
- Makino, Ryohel QF-1 algebras of local-colocal type. **86j:16018**
- Miyashita, Yoichi On a generalization of Kitamura's theorem. **86b:16009**
- Page, Stanley S. See Faith, Carl, **86f:16014**

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- Hajarnavis, C. R. (with Norton, N. C.) On dual rings and their modules. **86i:16016**
- Iwanaga, Yasuo Some special class of Artin rings of finite type. **86c:16012**
- Kupisch, Herbert (with Waschbüsch, Josef) On multiplicative bases in quasi-Frobenius algebras. **86c:16007**
- Norton, N. C. See Hajarnavis, C. R., **86i:16016**
- Waschbüsch, Josef See Kupisch, Herbert, **86c:16007**
- Yue Chi Ming, Roger On regular ideals and P -injectivity. (French summary) **86m:16009**

16A38 Rings with polynomial identity

- Borisenko, V. V. Identities of n -dimensional algebras of certain varieties. (Russian) **86k:16017**
- Damiano, Robert F. (with Shapiro, Jay) Twisted polynomial rings satisfying a polynomial identity. **86m:16006**
- Drenski, Veselin S. Codimensions of T -ideals and Hilbert series of relatively free algebras. **86b:16010**
- (with Kasprian, Azniv) A new central polynomial for 3×3 matrices. **86d:16026**
- Gataeva, T. V. On the PI-degree of the tensor product of PI-algebras. **86b:16011**
- Giambruno, Antonino (with Regev, A.) Wreath products and P.I. algebras. **86e:16027**
- Kasprian, Azniv See Drenski, Veselin S., **86d:16026**
- Kemer, A. R. Varieties and Z_2 -graded algebras. (Russian) **86f:16015**
- Klemp, Bogumila (with Simson, Daniel) A diagrammatic characterization of Schurian vector space PI-categories of finite type. (Russian summary) **86e:16028**
- Lanski, Charles Algebraic algebras with involution and bounded degree. **86d:16027**
- Levchenko, D. V. Bases of identities with involution of second-order matrix algebras over finite fields. (Russian) **86b:16012**

Mal'tsev, Yu. N. Cross varieties of algebras. (Russian) **86b:16013**

The basis rank of varieties of associative algebras. (Russian) **86h:16016**

Nikol'sev, Ruslan St. Identities of two variables in the second-order matrix algebra over a field of characteristic zero. (Russian) **86b:16014**

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Procesi, Claudio Computing with 2×2 matrices. **86g:16022**

Regev, A. See Glamburno, Antonino, **86e:16027**

Rosen, Jerry D. (with Rosen, Mary Peles) Generalized identities of finite-dimensional central simple algebras. **86g:16023**

Rosen, Mary Peles See Rosen, Jerry D., **86g:16023**

Schelter, William F. Smooth affine PI algebras. **86g:16024**

Shapiro, Jay See Damiano, Robert F., **86m:16006**

Simson, Daniel See Klemp, Bogumila, **86e:16028**

Small, Lance W. (with Stafford, J. T.; Warfield, R. B., Jr.) Affine algebras of Gel'fand-Kirillov dimension one are PI. **86g:16025**

(with Wadsworth, Adrian R.) Integrality of subrings of matrix rings. **86i:16017**

Stafford, J. T. See Small, Lance W. et al., **86g:16025**

Wadsworth, Adrian R. See Small, Lance W., **86i:16017**

Warfield, R. B., Jr. See Small, Lance W. et al., **86g:16025**

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Amitsur, S. A. The sequence of codimensions of PI-algebras. **86c:20016**

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Goodearl, K. R. (with Small, Lance W.) Krull versus global dimension in Noetherian P.I. rings. **86d:16020**

Hirano, Yasuyuki (with Yamakawa, Hirofumi) On nil and nilpotent derivations. **86e:16042**

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Lanski, Charles See Bergen, Jeffrey, **86j:16015**

Latsyshev, V. N. Commutativity of PI-algebras of polynomial type. (Russian) **86g:16048**

Ng, Seong Nam (1,1) algebras with minimum condition. **86a:16016**

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Protasov, I. V. Varieties of topological algebras. (Russian) **86a:16034**

Rao, Gandikota L. N. Certain distribution algebras by matrix representation. **86h:46068**

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Vernikov, B. M. (with Volkov, M. V.) Dualities in lattices of varieties of associative rings. (Russian) **86f:08010**

Volkov, M. V. Distributivity of certain lattices of varieties of associative rings. (Russian) **86h:08008**

See also Vernikov, B. M., **86f:08010**

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Zakharova, E. N. Varieties of associative algebras with the maximality condition for subvarieties. (Russian) **86b:08007**

Zyrichiev, A. N. (with Razmyslov, Yu. P.) Skew-symmetric elements in the group algebra of a symmetric group. (Russian) **86j:16013**

16A39 Skew fields [See also 12E15], division rings

Amitsur, S. A. See Tignol, J.-P., **86m:16007**

Andrunakievich, A. V. See Andrunakievich, V. A., **86h:16017**

Andrunakievich, V. A. (with Andrunakievich, A. V.) Subdirect products of division rings. (Russian) **86h:16017**

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On copowers of an ordered skew field. **86j:16019**

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Makar-Limanov, Leonid (with Malcolmson, Peter) Words periodic over the center of a division ring. **86g:16026**

Algebraically closed skew fields. **86d:16028**

Malcolmson, Peter See Makar-Limanov, Leonid, **86g:16026**

Schofield, A. H. Questions on skew fields. **86f:16017**

Artin's problem for skew field extensions. **86e:16029**

Tignol, J.-P. On the length of decompositions of central simple algebras in tensor products of symbols. **86d:16029**

(with Amitsur, S. A.) Kummer subfields of Mal'cev-Neumann division algebras. **86m:16007**

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Lorenz, Martin Group rings and division rings. **86d:16016**

Michaux, Christian See Boffa, Maurice et al., **86k:03019**

Petersson, Holger P. (with Racine, Michel L.) A norm theorem for central simple algebras of degree 3. **86a:17009**

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Jain, Surender Kumar (with Malik, D. S.) q-hypercyclic rings. **86j:16020**

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 Kuku, Aderemi O. K -theory of group-rings of finite groups over maximal orders in division algebras. **86d:18008**
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 Prasolov, A. V. On Karoubi-Villamayor and Quillen functors for triangular categories. (Russian. English summary) **86j:18011**
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- Chamarie, Marc Modules sur les anneaux de Krull non commutatifs. [Modules over noncommutative Krull rings] **86e:16007**
 Deshpande, M. G. On quasi-injective modules and a theorem of K. Koh. **86e:16033**
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 Hodges, T. J. The Krull dimension of skew Laurent extensions of commutative Noetherian rings. **86a:16002**
 Krause, Günter (with Lenagan, T. H.) ★ Growth of algebras and Gel'fand-Kirillov dimension. **86g:16001**
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 Small, Lance W. (with Warfield, R. B., Jr.) Prime affine algebras of Gel'fand-Kirillov dimension one. **86h:16006**
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 Datuashvili, T. I. The global homological dimension of trivial linear topological extensions of rings. (Russian. English summary) **86j:16027**
 Kraemer, Julius ★ Injektive Moduln, (Morita-) Selbstdualitäten, Zentren von Ringen. (German) [Injective moduli, (Morita-) self-dualities, centers of rings] **86j:16026**

16A60 Homological dimension

- Datuashvili, T. I. The global homological dimension of trivial linear topological extensions of rings. (Russian. English summary) **86j:16027**
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 Robson, J. C. Some constructions of rings of finite global dimension. **86i:16026**
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 Wiseman, A. N. Projective modules over pullback rings. **86e:16035**

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 Goodearl, K. R. (with Small, Lance W.) Krull versus global dimension in Noetherian P.I. rings. **86d:16020**
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 Levasseur, Thierry Dimension injective d'anneaux d'opérateurs différentiels. [Injective dimension of rings of differential operators] **86c:17012**
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17B45 Lie algebras of linear algebraic groups [See also 14Lxx and 20Gxx.]

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17B55 Homological methods in Lie algebras

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17B56 Cohomology of Lie algebras

Bartík, V. (with Vanžura, Jiří) Losik cohomology of the Lie algebra of infinitesimal automorphisms of a G -structure. **86f:17010**Carles, Roger Un exemple d'algèbres de Lie résolubles rigides, au deuxième groupe de cohomologie non nul et pour lesquelles l'application quadratique de D. S. Rim est injective. (English summary) [An example of solvable rigid Lie algebras with nontrivial second adjoint cohomology group and for which the quadratic mapping of D. S. Rim is one-to-one] **86m:17018**Daletskii, Yu. L. See Gelfand, I. M., **86f:17011**Feigin, B. L. (with Fuks, D. B.) Stable cohomology of the algebra W_n and relations in the algebra L_1 . (Russian) **86d:17011**Fuks, D. B. See Feigin, B. L., **86d:17011**Gelfand, I. M. (with Daletskii, Yu. L.) Some formal differential structures connected with Lie superalgebras. (Russian) **86f:17011**Kumar, Shrawan Geometry of Schubert cells and cohomology of Kac-Moody Lie algebras. **86j:17030**Loday, Jean-Louis (with Quillen, Daniel G.) Cyclic homology and the Lie algebra homology of matrices. **86i:17003**Quillen, Daniel G. See Loday, Jean-Louis, **86i:17003**Vanžura, Jiří See Bartík, V., **86f:17010**

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17B60 Lie rings associated with other structures (associative, Jordan, etc.)

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- ### 17B99 None of the above, but in this section
- Bakhturin, Yu. A. ★ Тождества в алгебрах Ли. (Russian) [Identities in Lie algebras] **86k:17015**
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17Cxx Jordan algebras (commutative)

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17C30 Automorphisms, derivations, other operators

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17C50 Jordan rings associated with other structures [See also 16A68, 17B60.]

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Eganova, I. A. (with **Shirokov, M. I.**) Orthomatrices and octonions. **86b:15019**

de Guzmán, I. P. (with **Rodríguez-Palacios, Ángel**) Jordan epimorphisms of a semisimple complete normed alternative Kleinfeld algebra. (Spanish) **86b:46080**

Neumann, Maria (with **Stanciu, L.**) Über einige Rechenregeln und Äquivalenzrelationen in einem Alternativkörper. (Romanian summary) [On some rules of arithmetic and equivalence relations in an alternative field] **86j:12013**

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17D10 Mal'cev (Mal'tsev) rings

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Elduque, Alberto A Frattini theory for Malcev algebras. **86b:17015**

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Koulibaly, Akry Idéaux premiers dans une algèbre de Malcev. [Prime ideals in a Mal'tsev algebra] **86i:17014**

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17D15 Right alternative rings

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17D20 (γ, δ) -rings

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17D25 Lie admissible algebras

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Jannussis, A. (with **Brodimas, G.**; **Papathéou, V.**; **Karayannis, G.**; **Panagopoulos, P.**; **Ioannidou, H.**) Lie-admissible unification of dissipative Schrödinger's equations. **86e:81060**

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Difference equations in the Lie-admissible formulation. **86g:81029**

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An introduction of gauge field by the Lie-isotopic lifting of the Hilbert space. **86b:81043a**

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Santilli, Ruggero Maria ★ Lie-admissible approach to the hadronic structure. Vol. I. **86h:81002a**

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17D92 Genetic algebras

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Ringwood, G. A. Hypergeometric algebras and Mendelian genetics. **86g:17024**

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17D99 None of the above, but in this section

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Osborn, J. Marshall Lie-admissible noncommutative Jordan loop rings. **86h:17025**

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Sagle, Arthur A. Mutation algebras related to connections on homogeneous spaces. **86h:53055**

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18-01 Elementary exposition; textbooks

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18-02 Advanced exposition (research surveys, monographs, etc.)

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18-06 Proceedings, conferences, etc.

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18Axx General theory of categories and functors

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18A10 Graphs, diagram schemes, precategories, neocategories [See also 20Lxx.]

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Pin, J.-E. See Margolis, S. W., (86d:20003)

18A15 Foundations, relations to logic and deductive systems [See also 03-XX.]

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18A20 Epimorphisms, monomorphisms, special classes of morphisms, null morphisms, factorization (bicategories)

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Cassidy, C. (with Hébert, M.; Kelly, G. M.) Reflective subcategories, localizations and factorization systems. 86j:18001

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Kelly, G. M. See Cassidy, C. et al., 86j:18001

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18A25 Functor categories, comma categories

Irfan, M. On equalizers and coequalizers in comma categories. 86k:18001

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18A30 Limits and colimits (products, sums, directed limits, pushouts, fiber products, equalizers, kernels, ends and coends, etc.)

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18A32 Factorization of morphisms (via images, coimages, dominions, codominions), substructures, quotient structures, congruences, amalgams

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18A35 Categories admitting limits (complete categories), functors commuting with limits, continuous functors, completions

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Irfan, M. On equalizers and coequalizers in comma categories. 86k:18001

Jara Martínez, Pascual A note on universal squares of groups. (Spanish. English summary) (See 86g:00012a)

Mielke, M. V. Geometric topological completions with universal final lifts. 86m:18004

Stramaccia, Luciano Pro-reflections and pro-factorizations. (French summary) 86m:18002

18A40 Adjoint functors (representable functors, universal constructions, reflective subcategories, reflections, etc.), constructions of adjoints (Kan extensions, etc.)

Betti, Renato Čech methods and the adjoint functor theorem. (French summary) 86m:18003

Castellini, G. (with Tozzi, A.) On systems of cogenerators of epi-reflective subcategories. 86a:18004

George, Daryl Homology with models. 86a:18005

Giuli, E. (with Tozzi, A.) On the lattice of epimorphic subcategories of a topological category. 86f:18005

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Porst, Hans-E. T-regular functors. 86i:18002

Tozzi, A. See Castellini, G., 86a:18004 and Giuli, E., 86f:18005

Wiveger, Antoni Pre-adjunctions and lambda-algebraic theories. 86d:18001

secondary classifications (18A40)

Baboolal, D. (with Bentley, H. L.; Ori, R. G.) Connection properties in nearness spaces. 86k:54045

Bentley, H. L. See Baboolal, D. et al., 86k:54045

Golasinski, M. Representability of the functor $K_0(\bar{K}_0)$ of the ring of 0-forms. (Russian) 86c:18006

Kashu, A. I. Localizations and conjugacies. (Russian) 86b:16002

Mantovani, Sandra Epi-reflective hulls of spaces of ordinals in T_0 . 86b:54008

Ori, R. G. See Baboolal, D. et al., 86k:54045

Sobral, Manuela On adjunctions inducing the same monad. 86d:18006

Szigeti, Jenő On limits and colimits in the Kleisli category. 86a:18008

Tozzi, A. Dispersed factorization structures in procategories. 86j:18004

18A99 None of the above, but in this section

Botha, S. G. (with Buys, A.) Prime ideals in categories. 86e:18002

Botnaru, D. V. Relative torsion theories on the category of locally convex groups. (Russian) 86b:18003

Buys, A. See Botha, S. G., 86e:18002

Dălanu, D. Morphismes spéciales en catégories floues et immersions. III. (Romanian summary) [Special morphisms in fuzzy categories and immersions. III] 86e:18003

Isbell, John Locally finite adequate subcategories. 86e:18004

Vásquez, Roberto On the essentiality of the concept of connectedness. (Spanish) 86f:18006

secondary classifications (18A99)

de Bunje, Albertina ★ Projective systems of probability spaces and measure preserving correspondences. 86g:28011

Castellini, G. (with Tozzi, A.) On systems of cogenerators of epi-reflective subcategories. 86a:18004

Harper, L. H. Morphisms for the strong Sperner property of Stanley and Griggs. 86d:05005

Tozzi, A. See Castellini, G., 86a:18004

18Bxx Special categories

18B10 Category of relations, additive relations

- Mallol, Cristian (with Olivier, Jean-Pierre; Serrato, Dany) Groupoids, idempotents and pointwise inverses in relational categories. **86f:18007**
 Olivier, Jean-Pierre See Mallol, Cristian et al., **86f:18007**
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- Nasarova, L. A. (with Rölter, A. V.) Representations and forms of weakly completed partially ordered sets. (Russian) **86d:06004**
 Rölter, A. V. See Nasarova, L. A., **86d:06004**

18B15 Imbedding theorems, universal categories [See also 18E20.]

- Borceux, Francis À propos d'un théorème de Barr. [On a theorem of Barr] **86c:18002**
 Grandis, Marco The running knot theorem for idempotent categories. (Italian summary) **86i:18003**
 Koubek, V. Large systems of independent objects in concrete categories. I, II. **86f:18008**
 Mielke, M. V. Geometric topological completions with universal final lifts. **86m:18004**

secondary classifications (18B15)

- Herrlich, Horst Universal topology. **86g:18004**

18B20 Categories of machines, automata, operative categories

[See also 03D05, 68Qxx.]

secondary classifications (18B20)

- Bahamonde Rionda, Antonio A generalized minimal realization theory of machines in a category. **86c:68060**
 Burstall, R. M. See Goguen, J. A., **86a:68066a** and **86a:68066b**
 Dididse, T. E. Radicals in automata. (Russian. English and Georgian summaries) **86g:68123**
 Goguen, J. A. (with Burstall, R. M.) Some fundamental algebraic tools for the semantics of computation. I. Comma categories, colimits, signatures and theories. **86a:68066a**
 (with Burstall, R. M.) Some fundamental algebraic tools for the semantics of computation. II. Signed and abstract theories. **86a:68066b**
 Gvaramiya, A. A. Quasivarieties of automata. Relations with quasigroups. (Russian) **86m:68098**
 Sasaki, Moritoshi (with Sugeno, Michio) State-transition categories. **86i:03069**
 Sugeno, Michio See Sasaki, Moritoshi, **86i:03069**

18B25 Topoi [See also 03G30.]

- Borceux, Francis (with Van den Bossche, Gilberte) Structure des topologies d'un topos. [Topological structure of a topos] **86a:18006**
 Joyal, André (with Tierney, Myles) An extension of the Galois theory of Grothendieck. **86d:18002**
 Lever, David Continuous families: categorical aspects. **86b:18004**
 Precategory objects of toposes. **86h:18001**
 MacDonald, John (with Stone, Arthur) Topoi over graphs. **86g:18002**
 Moerdijk, Ieke An elementary proof of the descent theorem for Grothendieck toposes. **86k:18002**
 Mulvey, C. J. (with Pelletier, Joan) On the points of locales in a De Morgan topos. **86j:18005**
 Niefield, S. B. (with Rosenthal, K. I.) Strong De Morgan's law and the spectrum of a commutative ring. **86f:18009**
 Paré, Robert A topos with no geometric morphism to any Boolean one. **86d:18003**
 Pelletier, Joan See Mulvey, C. J., **86j:18005**
 Penon, Jacques De l'infinitésimal au local. [From the infinitesimal to the local] **86g:18003**
 Rosenthal, K. I. See Niefield, S. B., **86f:18009**
 Stone, Arthur See MacDonald, John, **86g:18002**
 Tavakoli, Javad Tensor products of modules in a topos. **86i:18004**
 A characterization of geometric fields in a topos. **86b:18005**
 On products of modules in a topos. **86c:18005**
 Tierney, Myles See Joyal, André, **86d:18002**
 Van den Bossche, Gilberte See Borceux, Francis, **86a:18006**

secondary classifications (18B25)

- Barr, Michael (with Wells, Charles) ★ Toposes, triples and theories. **86f:18001**
 Bunge, Marta Toposes in logic and logic in toposes. **86e:03060**
 Rice, Michael D. Discrete uniform structures and quasitopoi. **86e:18007**
 Šedrov, A. Forcing and classifying topoi. **86d:03057**
 Wells, Charles See Barr, Michael, **86f:18001**

18B30 Categories of topological spaces and continuous mappings

[See also 54-XX.]

- Adámek, Jiří (with Reiterman, J.; Strecker, G. E.) Realization of Cartesian closed topological hulls. **86m:18005**
 Böger, Reinhard Connectivity spaces and component categories. **86e:18006**
 Brümmer, G. C. L. Topological categories. **86b:18006**
 Dikranjan, Dikran (with Giuli, E.) Epimorphisms and cowellpoweredness of epi-reflective subcategories of Top. **86i:18005**
 Giuli, E. See Dikranjan, Dikran, **86i:18005**
 Herrlich, Horst Universal topology. **86g:18004**
 Lever, David Relative topology. **86i:18006**

- Nel, L. D. Topological universes and smooth Gel'fand-Naimark duality. **86b:18007**
 Pedicchio, Maria Cristina On the category of topological topologies. **86f:18010**
 Reiterman, J. See Adámek, Jiří et al., **86m:18005**
 Rice, Michael D. Discrete uniform structures and quasitopoi. **86e:18007**
 Strecker, G. E. See Adámek, Jiří et al., **86m:18005**
 Tashjian, G. J. Metrizable spaces in Cartesian-closed subcategories of uniform spaces. **86g:18005**

secondary classifications (18B30)

- Abd-Allah, A. M. Separation properties in the category TOP_B . **86k:54035**
 Banaschewski, B. More on compact Hausdorff spaces and finitary duality. **86h:18002**
 Basmanov, V. N. Covariant functors of finite degrees and connectedness. (Russian) **86m:55002**
 Bentley, H. L. (with Hastings, M. S.; Ori, R. G.) Rings of uniformly continuous functions. **86k:54046**
 Dimov, G. D. An axiomatic characterization of the Stone duality. **86g:54058**
 Eklund, Patrik Category theoretic properties of fuzzy topological spaces. **86d:54007**
 Fedorchuk, V. V. Some geometric properties of covariant functors. (Russian) **86j:54002**
 Hastings, M. S. See Bentley, H. L. et al., **86k:54046**
 Herrlich, Horst Universal topology. **86g:18004**
 Topological structure theory. (See **86f:54003**)
 James, I. M. General topology over a base. **86g:54031**
 Kelly, G. M. (with Rossi, Fabio) Topological categories with many symmetric monoidal closed structures. **86a:18009**
 Kneis, Gert Completion for some concrete categories over the category of uniform limit spaces. **86k:54004**
 Logar, Alessandro (with Rossi, Fabio) Monoidal closed structures on categories with constant maps. **86a:18010**
 Melton, A. Galois connections and characterization theorems for dispersed, hereditarily dispersed, and hereditary factorization structures. **86j:18003**
 Ori, R. G. See Bentley, H. L. et al., **86k:54046**
 Richter, Günther Separation properties in algebraic categories of topological spaces. **86k:54019**
 Rosický, J. (with Šmarda, B.) T_1 -locales. **86h:54027**
 Rossi, Fabio See Kelly, G. M., **86a:18009** and Logar, Alessandro, **86a:18010**
 Šmarda, B. See Rosický, J., **86h:54027**

18B35 Preorders, orders and lattices (viewed as categories) [See also 06-XX.]

secondary classifications (18B35)

- Björner, Anders Reflexive domains and fixed points. **86j:18007**
 Yoshida, Tomoyuki The Möbius algebra as a Burnside ring. **86d:20016**

18B40 Groupoids, semigroupoids, semigroups, groups (viewed as categories) [See also 20Axx, 20Lxx, 20Mxx.]

secondary classifications (18B40)

- Michalek, Jacek Inductive and projective limits of covering k -groups of n -groups. **86a:20025**

18B99 None of the above, but in this section

- Babaev, È. A. On relations of categories of linear spaces and semigroups. (Russian. English and Azerbaijani summaries) **86j:18006**
 Björner, Anders Reflexive domains and fixed points. **86j:18007**
 Cano Torres, Felipe A generalization of the concept of polynomial algebra. (Spanish. English summary) (See **86g:00012a**)
 Grandis, Marco Concrete representations for inverse and distributive exact categories. (Italian summary) **86f:18011**
 Porst, Hans-E. Regular decompositions of semitopological functors. **86i:18007**
 Rua, Ioan A. Relative fixed point property. (See **86e:00013**)
 Topencharov, Vladimir V. Addendum to: "Elements of the theory of polyadic categories" [Algebra Universalis 7 (1977), no. 3, 277-293; MR 56 #3086]. (French) **86d:18004**

secondary classifications (18B99)

- Banaschewski, B. (with Mulvey, C. J.) Stone-Čech compactification of locales. II. **86d:06009**
 Barendregt, Hendrik Pieter Lambda calculus and its models. **86f:03025**
 Betti, Renato Probabilistic metrics in general category theory. **86i:54029**
 Dăianu, D. Stability and inverse stability in approximation schemes. (Romanian summary) **86h:65018**
 Dęteev, A. A category of enumerated sets. (Russian) **86e:03044**
 Dubuc, E. J. (with Kock, Anders) On 1-form classifiers. **86b:58007**
 Dzhanelidze, F. Z. Galois extensions of commutative rings by profinite families of groups. (Russian. English summary) **86k:13006**
 Facchini, Alberto Decompositions of algebraically compact modules. **86g:16031**
 Gray, John W. Intrinsic linear programming. **86h:90057**
 Griggs, Jerrold R. The Sperner property. (French summary) **86i:06006**
 Kawahara, Yasuo Categorical relational database models. **86i:68021**
 Kas, M. P. On some properties of linear pseudotopologies. (See **86f:54003**)
 Kock, Anders See Dubuc, E. J., **86b:58007**
 Kolář, Ivan Natural transformations of the second tangent functor into itself. **86m:58014**
 Kudo, Tatsuji On normal relations. **86k:04001**
 Louie, A. H. Categorical system theory and the phenomenological calculus. **86f:92004**
 Categorical system theory. **86g:92012**
 Mulvey, C. J. See Banaschewski, B., **86d:06009**

- Németi, I. Foundations for stepwise refinement of program specifications via cylindric algebra theory. **86a:03031**
- Pumplün, D. Regularly ordered Banach spaces and positively convex spaces. **86b:46121** (with Röhrli, H.) Separated totally convex spaces. **86h:46104**
- Richman, Fred Butler groups, valued vector spaces, and duality. **86c:20063**
- Röhrli, H. See Pumplün, D., **86h:46104**
- Smyth, Michael B. The largest Cartesian closed category of domains. **86g:68113**
- Takahara, Yasuhiko Category of basic linear systems—a category theoretic foundation of linear systems. (Russian summary) **86c:93003**
- Takeuchi, Mitsuhiro Equivalences of categories of algebras. **84j:18038**
- Thérien, Denis (with Weis, Alex) Graph congruences and wreath products. **86i:20093**
- Van Osdol, D. H. C^* -algebras and cohomology. **86f:46064**
- Villmoravský, J. Locally convex spaces not containing normed-like subspaces. **86g:46109**
- Weis, Alex See Thérien, Denis, **86i:20093**
- Wiweger, Antoni On equilibrium situations of abstract games. (Russian summary) **86g:90154**

18Cxx Categories and algebraic theories

18C05 Equational categories [See also 03-XX, 08C05.]

- Banaschewski, B. More on compact Hausdorff spaces and finitary duality. **86h:18002**
- Sobral, Manuela Restricting the comparison functor of an adjunction to projective objects. **86a:18007**

secondary classifications (18C05)

- Andréka, H. (with Passtor, A.) Relative epis need not be surjective. **86m:18001**
- Benoit, Christophe Axiomatization des tests. (English summary) [Axiomatization of tests] **84j:08004**
- Isbell, John Varieties of frames. **86c:08011**
- Montrucchi, Maria Alberta The comonad Σ associated with a variety Σ^* of algebras. (Italian. English summary) **86i:08005**
- Passtor, A. See Andréka, H., **86m:18001**
- Richter, Günther Krull-Schmidt for arbitrary categories. **86f:18003**
- Mal'cev conditions for categories. **86m:08011**

18C10 Theories (e.g. algebraic theories), structure, and semantics [See also 03-XX.]

- Jarsembaki, Grzegorz Partially monadic functors. **86c:18003**
- Mac Lane, Saunders Diagrams, equations and theories in categories. **86i:18008**
- Vogel, Hans-Jürgen Eine kategorientheoretische Sprache zur Beschreibung von Birkhoff-Algebren. (German) [A category-theoretical language for the description of Birkhoff algebras] **86d:18005**

secondary classifications (18C10)

- Barr, Michael (with Wells, Charles) \star Toposes, triples and theories. **86f:18001**
- Katsov, E. B. (with Livahits, A. Kh.) Categories of digraphs and polygons. (Russian) **86k:05055**
- Livahits, A. Kh. See Katsov, E. B., **86k:05055**
- Wells, Charles See Barr, Michael, **86f:18001**
- Wiweger, Antoni Pre-adjunctions and lambda-algebraic theories. **86d:18001**

18C15 Triples (= standard construction, monad or triad), algebras for a triple, homology and derived functors for triples [See also 18Gxx.]

- Barja Pérez, J. M. (with Freire Nistal, J. L.) Associated triples. (Spanish. English summary) (See **86g:00012a**)
- (with López López, M. A.) The triple $\text{Hom}(M, -)$ in sets. (Spanish. English summary) (See **86g:00012a**)
- (with García-Rodeja Fernández, E.) Kleisli algebras. (Spanish. English summary) (See **86g:00012a**)
- Freire Nistal, J. L. Subtheories of double duality. (Spanish. English summary) (See **86g:00012a**)
- See also Barja Pérez, J. M., (**86g:00012a**)
- García-Rodeja Fernández, E. See Barja Pérez, J. M., (**86g:00012a**)
- Lair, C. Sesqui-monads et monades locales. [Sesquimonads and local monads] **86i:18009**
- López López, M. A. See Barja Pérez, J. M., (**86g:00012a**)
- Sobral, Manuela On adjunctions inducing the same monad. **86d:18006**

secondary classifications (18C15)

- Barr, Michael (with Wells, Charles) \star Toposes, triples and theories. **86f:18001**
- Herlinda, Charles Maps of cotriples and a change of rings theorem. **86c:18011**
- Koslowski, Jürgen Dual adjunctions and the compatibility of structures. **86f:18002**
- Montrucchi, Maria Alberta The comonad Σ associated with a variety Σ^* of algebras. (Italian. English summary) **86i:08005**
- Porst, Hans-E. T-regular functors. **86i:18002**
- Wells, Charles See Barr, Michael, **86f:18001**

18C20 Algebras and Kleisli categories associated with monads

- Saigeti, Jenő On limits and colimits in the Kleisli category. **86a:18008**
- Tokoe, K. Stochastic supersymmetry. (See **86i:81002**)

secondary classifications (18C20)

- Barja Pérez, J. M. (with García-Rodeja Fernández, E.) Kleisli algebras. (Spanish. English summary) (See **86g:00012a**)
- Betti, Renato Shape theory in a bicategory. **86f:18012**
- García-Rodeja Fernández, E. See Barja Pérez, J. M., (**86g:00012a**)

- Jarsembaki, Grzegorz Partially monadic functors. **86c:18003**
- Koslowski, Jürgen Dual adjunctions and the compatibility of structures. **86f:18002**
- Montrucchi, Maria Alberta The comonad Σ associated with a variety Σ^* of algebras. (Italian. English summary) **86i:08005**
- Pumplün, D. (with Röhrli, H.) Separated totally convex spaces. **86h:46104**
- Röhrli, H. See Pumplün, D., **86h:46104**
- Sobral, Manuela Restricting the comparison functor of an adjunction to projective objects. **86a:18007**

18C99 None of the above, but in this section

secondary classifications (18C99)

- Borceux, Francis (with Van den Bossche, Gilberte) Structure des topologies d'un topos. [Topological structure of a topos] **86a:18006**
- Joyal, André δ -anneaux et vecteurs de Witt. [δ -rings and Witt vectors] **86j:13023**
- Van den Bossche, Gilberte See Borceux, Francis, **86a:18006**

18Dxx Categories with structure

secondary classifications (18Dxx)

- MacDonald, John (with Stone, Arthur) Topoi over graphs. **86g:18002**
- Stone, Arthur See MacDonald, John, **86g:18002**

18D05 Double categories, 2-categories, bicategories, hypercategories

- Betti, Renato Shape theory in a bicategory. **86f:18012**
- Carboni, Aurelio (with Kasangian, Stefano; Street, Ross) Bicategories of spans and relations. **86f:18013**
- Kasangian, Stefano See Carboni, Aurelio et al., **86f:18013**
- Mac Lane, Saunders (with Paré, Robert) Coherence for bicategories and indexed categories. **86k:18003**
- Applications of categorical algebra. (Russian) **86m:18006**
- Paré, Robert See Mac Lane, Saunders, **86k:18003**
- Rosebrugh, R. D. (with Wood, R. J.) Cofibrations in a bicategory of abelian categories. **86c:18008**
- (Skurikhin, E. E.) See Mac Lane, Saunders, **86m:18006**
- Street, Ross See Carboni, Aurelio et al., **86f:18013**
- Wood, R. J. Proarrows. II. (French summary) **86i:18010**
- See also Rosebrugh, R. D., **86c:18008**

secondary classifications (18D05)

- Betti, Renato Čech methods and the adjoint functor theorem. (French summary) **86m:18003**

18D10 Monoidal categories (= multiplicative categories) [See also 19D23.]

secondary classifications (18D10)

- Kelly, G. M. (with Rossi, Fabio) Topological categories with many symmetric monoidal closed structures. **86a:18009**
- Rossi, Fabio See Kelly, G. M., **86a:18009**

18D15 Closed categories (closed monoidal and Cartesian closed categories, etc.)

- Blanco Ferro, A. A. \star Teorías de descenso en categorías cerradas. (Spanish) [Descent theories in closed categories] **86m:18007**
- Kelly, G. M. (with Rossi, Fabio) Topological categories with many symmetric monoidal closed structures. **86a:18009**
- Logar, Alessandro (with Rossi, Fabio) Monoidal closed structures on categories with constant maps. **86a:18010**
- Rossi, Fabio See Kelly, G. M., **86a:18009** and Logar, Alessandro, **86a:18010**
- Seely, R. A. G. Locally Cartesian closed categories and type theory. **86b:18008**

secondary classifications (18D15)

- Betti, Renato Probabilistic metrics in general category theory. **86i:54029**
- Fernández Vilaboa, J. M. \star Grupos de Brauer y de Galois de un álgebra de Hopf en una categoría cerrada. (Spanish) [Brauer groups and Galois groups of a Hopf algebra in a closed category] **86j:16010**
- Joyal, André (with Tierney, Myles) An extension of the Galois theory of Grothendieck. **86d:18002**
- Kriegel, Andreas A Cartesian closed extension of the category of smooth Banach manifolds. **86i:58005**
- Lewis, L. Gaunce, Jr. Open maps, colimits, and a convenient category of fibre spaces. **86j:54049**
- Mielke, M. V. Geometric topological completions with universal final lifts. **86m:18004**
- Pedicchio, Maria Cristina On the category of topological topologies. **86f:18010**
- Pumplün, D. (with Röhrli, H.) Banach spaces and totally convex spaces. I. **86a:46094**
- Rice, Michael D. Discrete uniform structures and quasitopoi. **86c:18007**
- Röhrli, H. See Pumplün, D., **86a:46094**
- Tierney, Myles See Joyal, André, **86d:18002**
- Álgebra See Fernández Vilaboa, J. M., **86j:16010**

18D20 Enriched categories (over closed or monoidal categories)

Ulrich, K.-H. Kohärenz in Kategorien mit Gruppenstruktur. III. [Coherence in categories with group structure. III] **86a:18011**

secondary classifications (18D20)

Betti, Renato Cocompleteness over coverings. **86i:18001**

Street, Ross Homotopy classification by diagrams of interlocking sequences. **86i:55025**

Wood, R. J. Proarrows. II. (French summary) **86i:18010**

18D30 Fibered categories

secondary classifications (18D30)

Mac Lane, Saunders (with Paré, Robert) Coherence for bicategories and indexed categories. **86k:18003**

Paré, Robert See Mac Lane, Saunders, **86k:18003**

Forst, Hans-E. Regular decompositions of semitopological functors. **86i:18007**

Šedrov, A. Forcing and classifying topoi. **86d:03057**

18D35 Structured objects in a category (group objects, etc.)

secondary classifications (18D35)

Mac Lane, Saunders Diagrams, equations and theories in categories. **86i:18008**

Montruccoli, Maria Alberta The comonad Σ associated with a variety Σ^* of algebras. (Italian. English summary) **86i:08005**

18D99 None of the above, but in this section

Dahaneldse, G. Z. Magid's theorem in categories. (Russian. English and Georgian summaries) **86g:18006**

Golasinski, M. Closed models on the procategory of small categories and simplicial schemes. (Russian) **86b:18009**

Ulrich, K.-H. Group cohomology for Picard categories. **86h:18003**

secondary classifications (18D99)

Castellini, G. (with Tozzi, A.) On systems of cogenerators of epi-reflective subcategories. **86a:18004**

Hoff, Georges Aspects de l'homotopie concrète. [Aspects of concrete homotopy] **86k:55021**

Lever, David Continuous families: categorical aspects. **86b:18004**

Tozzi, A. See Castellini, G., **86a:18004**

18Exx Abelian categories

18E05 Preadditive, additive categories

Arnold, David M. A finite global Azumaya theorem in additive categories. **86a:18012**

18E15 Grothendieck categories

secondary classifications (18E15)

Gordon, Robert Group-gradings of categories. **86k:18038**

Năstăsescu, Constantin A remark on Noetherian injective objects in commutative Grothendieck categories. **86a:13012**

18E25 Derived functors and satellites

Guitart, René (with Van den Bril, Luc) Calcul des satellites et présentations des bimodules à l'aide des carrés exacts. [Calculation of satellites and presentations of bimodules by means of exact squares] **86g:18007a**

(with Van den Bril, Luc) Calcul des satellites et présentations des bimodules à l'aide des carrés exacts. II. [Calculation of satellites and presentations of bimodules by means of exact squares. II] **86g:18007b**

Van den Bril, Luc See Guitart, René, **86g:18007a** and **86g:18007b**

18E35 Localization of categories

Kashu, A. I. Double localizations and reflective subcategories. (Russian) **86b:18010**

Lemaire, Claude Localisation relative associée à une théorie de torsion. [Relative localization associated with a torsion theory] **86e:18009**

secondary classifications (18E35)

Cassidy, C. (with Hébert, M.; Kelly, G. M.) Reflective subcategories, localizations and factorization systems. **86j:18001**

Hébert, M. See Cassidy, C. et al., **86j:18001**

Kelly, G. M. See Cassidy, C. et al., **86j:18001**

18E40 Torsion theories, radicals [See also 13D30, 16A63.]

García Hernández, J. L. (with Gómez Pardo, J. L.) V-rings relative to Gabriel topologies. **86f:18015**

Gómez Pardo, J. L. Spectral Gabriel topologies and relative singular functors. **86f:18014** See also García Hernández, J. L., **86f:18015**

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Veldman, S. (with Wiegandt, R.) On the existence and nonexistence of complementary radical and semisimple classes. **86c:18004**

Wiegandt, R. See Veldman, S., **86c:18004**

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Botnaru, D. V. Relative torsion theories on the category of locally convex groups. (Russian) **86b:18003**

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Trlifaj, Jan Ext and von Neumann regular rings. **86g:16038**

18E99 None of the above, but in this section

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Wu, Li Sheng On the n -versions of an R -module. (Chinese. English summary) **86e:20080**

18Fxx Categories and geometry

18F10 Grothendieck topologies [See also 14F20.]

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Wells, Charles See Barr, Michael, **86f:18001**

18F15 Abstract manifolds and fiber bundles [See also 55Rxx, 57Pxx.]

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Bunge, Marta (with Sawyer, Patrice) On connections, geodesics and sprays in synthetic differential geometry. (French summary) **86k:58011**

Michor, Peter W. A convenient setting for differential geometry and global analysis. **86g:58014a**

A convenient setting for differential geometry and global analysis. II. (French summary) **86g:58014b**

Sawyer, Patrice See Bunge, Marta, **86k:58011**

18F20 Presheaves and sheaves [See also 14F05, 32C35, 32L10, 54B40, 55N30.]

Dogaru, Oltin Faisceaux K -simples. [K -simple sheaves] **86i:18011**

Simmons, Harold Sheaf representations of strongly harmonic rings. **86j:18008**

secondary classifications (18F20)

Barr, Michael (with Wells, Charles) ★ Toposes, triples and theories. **86f:18001**

Borceux, Francis À propos d'un théorème de Barr. [On a theorem of Barr] **86c:18002**

Davittade, A. V. Spectral sequences related to functors given on categories of inverse spectra and morphism systems of sheaves. (Russian. English summary) **86k:54020**

Español, L. Note on the Pierce representation of a ring. (Spanish. English summary) (See **86h:00009b**)

Golovin, V. D. Duality theorems for functors "Ext" of coherent analytic sheaves. (Russian. English and Georgian summaries) **86h:32022**

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Turrini, Cristina See Rosolini, Giuseppe et al., **86k:32009**

Wells, Charles See Barr, Michael, **86f:18001**

18F25 Algebraic K -theory and L -theory [See also 11Exx, 11R70, 11S70, 12-XX, 13D15, 14Cxx, 16A54, 19-XX, 57R65, 57R67.]

Aisbett, Janet K -groups of rings and the homology of their elementary matrix groups. **86i:18012**

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Cartier, Pierre Homologie cyclique: rapport sur des travaux récents de Connes, Karoubi, Loday, Quillen... [Cyclic homology: report on recent work of Connes, Karoubi, Loday, Quillen...] **86e:18012**

Connes, Alain Cohomologie cyclique et foncteurs Ext^n . (English summary) [Cyclic cohomology and functors Ext^n] **86d:18007**

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Goodearl, K. R. Cancellation of low-rank vector bundles. **86a:18013**

- Goodwillie, Thomas G. On the general linear group and Hochschild homology. **86i:18013**
- Grayson, Daniel R. Universal exactness in algebraic K -theory. **86f:18016**
- Hahn, Alexander J. A Hermitian Morita theorem for algebras with anti-structure. **86j:18010**
- van der Kallen, Wilberd (with Stienstra, Jan) The relative K_2 of truncated polynomial rings. **86f:18017**
- Karoubi, Max Relations between algebraic K -theory and Hermitian K -theory. **86c:18007**
- Kawakubo, Katsuo Representations over G -rings and cohomology. **86b:18012**
- Keating, M. E. The K -theory of triangular rings and orders. **86b:18013**
- Kolster, Manfred General symbols and presentations of elementary linear groups. **86a:18014**
- Kuku, Ademil O. Equivariant K -theory and the cohomology of profinite groups. **86h:18008**
- K -theory of group-rings of finite groups over maximal orders in division algebras. **86d:18008**
- Menal, Pere (with Moncasi, J.) K_1 of von Neumann regular rings. **86i:18014**
- Moncasi, J. See Menal, Pere, **86i:18014**
- Nemytov, A. I. (with Solov'ev, Yu. P.) BN -pairs and Hermitian K -theory. (Russian) **86m:18008**
- Nicas, Andrew J. On Wh_3 of a Bieberbach group. **86a:18015**
- On Wh_2 of a Bieberbach group. **86f:18015b**
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- Oliver, Robert An exact sequence involving $K_1(\mathbb{Z}_p\pi)$ and $K_2(\mathbb{Z}_p\pi)$. **86a:18016**
- Pedersen, Erik Kjaer K_{-1} -invariants of chain complexes. **86g:18008**
- Prasolov, A. V. On Karoubi-Villamayor and Quillen functors for triangular categories. (Russian. English summary) **86j:18011**
- Quinn, Frank Algebraic K -theory of poly-(finite or cyclic) groups. **86a:18015**
- Retakh, V. S. Opérations de Massey, la construction S et extensions de Yoneda. (English summary) [Massey operations, S -construction and Yoneda extensions] **86d:18009**
- Smaith, Victor Unitary K -homology and the Lichtenbaum-Quillen conjecture on the algebraic K -theory of schemes. **86c:18008**
- l -adic and \mathbb{Z}/l^n -algebraic and topological K -theory. **86m:18009**
- Solov'ev, Yu. P. See Nemytov, A. I., **86m:18008**
- Staffeldt, R. E. Rational algebraic K -theory of certain truncated polynomial rings. **86m:18010**
- Stein, Michael R. Generating the cokernel of $K_3\mathbb{Z} \rightarrow K_3F_7$. **86i:18015**
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- Suslin, A. A. On the K -theory of local fields. **86d:18010**
- Algebraic K -theory (in the Mathematics Institute of the Academy of Sciences). (Russian) **86g:18009**
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- See also Geller, Susan C., **86a:18013**
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- Arason, Jón Kr. A proof of Merkurjev's theorem. **86f:11029**
- (with Elman, Richard; Jacob, Bill) The graded Witt ring and Galois cohomology. I. **86g:11020**
- Ash, Avner (with Grayson, Daniel R.; Green, Philip) Computations of cuspidal cohomology of congruence subgroups of $SL(3, \mathbb{Z})$. **86g:11033**
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- Beilinson, A. Higher regulators and values of L -functions. (Russian) **86f:11033**
- Berrick, A. J. Group epimorphisms preserving perfect radicals, and the plus-construction. **86a:20056**
- Boe, Riklart ★ Quadratic forms, orderings and abstract Witt rings. **86h:11033**
- Calvo, Adina K -théorie des anneaux ultramétriques. (English summary) [K -theory of ultrametric rings] **86k:46105**
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- Carter, David (with Keller, Gordon) Elementary expressions for unimodular matrices. **86a:11023**
- Caruso, J. (with Cohen, F. R.; May, J. P.; Taylor, Laurence R.) James maps, Segal maps, and the Kahn-Priddy theorem. **86g:55007**
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- Charney, Ruth On the problem of homology stability for congruence subgroups. **86b:20053**
- Cohen, F. R. See Caruso, J. et al., **86g:55007**
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- Collino, Alberto Torsion in the Chow group of codimension two: the case of varieties with isolated singularities. **86b:14005**
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- Cuntz, Joachim K -theory and C^* -algebras. **86d:46071**
- Dayton, Barry H. K_0 of a union of planes through the origin. **86f:14005**
- Dwyer, William G. (with Hopkins, M. J.; Kan, D. M.) The homotopy theory of cyclic sets. **86m:55014**
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- Evans, Leonard (with Priddy, Stewart B.) The cohomology of the semidihedral group. **86h:20075**
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- Hillman, Jonathan A. Factorization of Kojima knots and hyperbolic concordance of Levine pairings. **86i:57024**
- Hirata, Koichi (with Kono, Akira) On the algebraic K -cohomology of lens spaces. **86i:55006**
- Hoffman, Peter N. (with Mess, G.) Generators for K_0K and K^0K . **86k:55018**
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- Joyal, André δ -anneaux et vecteurs de Witt. [δ -rings and Witt vectors] **86j:13023**
- δ -anneaux et λ -anneaux. [δ -rings and λ -rings] **86j:13024**
- Julg, Pierre (with Valette, Alain) K -moyennabilité pour les groupes opérant sur les arbres. (English summary) [K -amenability for groups acting on trees] **86m:46063**
- (with Valette, Alain) K -theoretic amenability for $SL_2(\mathbb{Q}_p)$, and the action on the associated tree. **86b:22030**
- Kahn, Bruno La deuxième classe de Stiefel-Whitney d'une représentation régulière. I. (English summary) [The second Stiefel-Whitney class of a regular representation. I] **86a:11015a**
- La deuxième classe de Stiefel-Whitney d'une représentation régulière. II. (English summary) [The second Stiefel-Whitney class of a regular representation. II] **86a:11015b**
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- Khokhlov, A. V. (with Pashitnov, A. V.; Rudyak, Yu. B.) On the homotopical structure and applications of Morava's extraordinary K -theories. **86j:55006**
- Kolster, Manfred K_2 of noncommutative local rings. **86k:16021**
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- Lewis, David W. The Merkurjev-Suslin theorem. **86a:12001**
- Liehl, Bernhard Beschränkte Wortlänge in SL_2 . [Bounded word length in SL_2] **86b:11034**
- Litherland, R. A. Cobordism of satellite knots. **86k:57003**
- Ljulevicius, Arunas Borsuk-Ulam theorems and K -theory degrees of maps. **86m:57039**
- Loday, Jean-Louis (with Quillen, Daniel G.) Cyclic homology and the Lie algebra homology of matrices. **86i:17003**
- (Magura, Bruce A.) See Reviews in K -theory, **86i:00023**
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- Murre, Jacob P. Un résultat en théorie des cycles algébriques de codimension deux. (English summary) [A result in the theory of algebraic cycles of codimension two] **86c:14004**
- Nicas, Andrew J. (with Stark, C. W.) K -theory and surgery of codimension-two torus actions on aspherical manifolds. **86m:57032**
- Pardon, William A relation between Witt groups and zero-cycles in a regular ring. **86f:11031**
- Pataraya, D. A. Duality of K -theory with K -homology for C^* -algebras. (Russian. English and Georgian summaries) **86f:46078**
- Pashitnov, A. V. See Khokhlov, A. V. et al., **86j:55006**
- Pedrin, Claudio Vector bundles over singular affine surfaces. (Italian summary) **86b:14007**
- Petechuk, V. M. Isomorphisms of symplectic groups over commutative rings. (Russian) **86k:20038**
- Platonov, V. P. (with Yanchevskii, V. I.) Dieudonné's conjecture on the structure of unitary groups and skew fields over Hensel fields. (Russian) **86c:11026**
- (with Yanchevskii, V. I.) Dieudonné's conjecture on the structure of unitary groups over a skew-field and Hermitian K -theory. (Russian) **86h:12004**

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- Prasolov, A. V. Algebraic K -theory of Banach algebras. (Russian. English summary) **86d:46074**
- Priddy, Stewart B. See Evens, Leonard, **86b:20075**
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- Rao, Ravi A. On projective $R_f \dots f_i$ -modules. **86j:13011**
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- Schultz, Reinhard E. Homotopy invariants and G -manifolds: a look at the past fifteen years. **86e:57037**
- Schwartz, Lionel K -théorie des corps finis et homotopie stable du classifiant d'un groupe de Lie. [K -theory of finite fields and stable homotopy of the classifying space of a Lie group] **86c:55006**
- Schwermer, J. (with Vogtmann, Karen) The integral homology of SL_2 and PSL_2 of Euclidean imaginary quadratic integers. **86d:11046**
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- Skandalis, Georges Some remarks on Kasparov theory. **86c:48085**
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- Stafford, J. T. Stably free, projective right ideals. **86i:16025**
- Stark, C. W. See Nicas, Andrew J., **86m:57032**
- Steinberger, Mark (with West, James) Equivariant h -cobordisms and finiteness obstructions. **86j:57019**
- (Stoltzfus, Neal W.) See Kreck, M., **86b:57015**
- Suslin, A. A. Homology of GL_n , characteristic classes and Milnor K -theory. **86f:11090a**
- Algebraic K -theory and the norm residue homomorphism. (Russian) **86j:11121**
- Homology of GL_n , characteristic classes and Milnor K -theory. (Russian) **86f:11090b**
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- Taylor, Martin J. \star Classgroups of group rings. **86c:11100**
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- Vorst, Ton A survey on the K -theory of polynomial extensions. **86f:13008**
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- 18F30** Grothendieck groups [See also 13D15, 16A54, 19Axx.]
- secondary classifications (18F30)
- Desrochers, Maryse Self-duality and torsion Galois modules in number fields. **86e:11108**
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- 18F99** None of the above, but in this section
- secondary classifications (18F99)
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- Mulvey, C. J. (with Pelletier, Joan) On the points of locales in a De Morgan topos. **86j:18005**
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- Skornyakov, L. A. Injective objects of categories of representations of monoids. (Russian) **86a:20086**
- 18G10** Resolutions; derived functors [See also 18E25.]
- Mdsinarishvili, Leonard Universelle Koeffizientenfolgen für den \lim -Funktoren und Anwendungen. [Universal coefficient sequences for the \lim -functor and applications] **86i:18016**
- Rim, Joong Kyu On the homology of algebras. **86e:18016**
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- Buchsbaum, David A. \star Generic free resolutions and Schur complexes. **86c:13016**
- Skordev, Gencho S. Zarelua's spectral sequence. (Russian) **86i:55024**
- Talelli, Olympia On minimal resolutions for metacyclic groups with periodic cohomology. **86f:20063**
- 18G15** Ext and Tor, generalizations, Künneth formula [See also 55U25.]
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- Alisade, R. G. Coperiodic groups and the functor \lim^1 . (Russian. English and Azerbaijani summaries) **86f:20068**
- 18G20** Homological dimension [See also 13Dxx, 16A60, 16A62.]
- Herlands, Charles Maps of cotriples and a change of rings theorem. **86c:18011**
- 18G30** Simplicial sets, simplicial objects (in a category) [See also 55U10.]
- Schumacher, Lothar \star Über die Interpretation von Kohomologiegruppen durch Erweiterungen. (German) [On the interpretation of cohomology groups by extensions] **86a:18018**
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- 18G35** Chain complexes [See also 18E30, 55U15.]
- Katayama, Shin-ichi On homotopy classes of cochain maps. **86k:18004**
- 18G40** Spectral sequences, hypercohomology [See also 55Txx.]
- Grandis, Marco On distributive homological algebra. I. RE-categories. (French summary) **86m:18012a**
- On distributive homological algebra. II. Theories and models. (French summary) **86m:18012b**
- On distributive homological algebra. III. Homological theories. (French summary) **86m:18012c**
- Maison, A. K. The homology of a certain Hopf algebra over $(\text{mod } p)$ Lazard's universal ring. **86i:18017**
- Pirashvili, T. I. A spectral sequence of an epimorphism. II. (Co)homology of associative algebras and spaces. (Russian. English summary) **86m:18013**
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- Alsbett, Janet K -groups of rings and the homology of their elementary matrix groups. **86i:18012**
- Barnes, D. W. Spectral sequence constructors in algebra and topology. **86e:55032**
- Davitadse, A. V. Spectral sequences related to functors given on categories of inverse spectra and morphism systems of sheaves. (Russian. English summary) **86k:54020**
- Mac Lane, Saunders Spectral complications in cohomology computations. **86d:20080**
- Pitis, Gheorghe Suites spectrales et J -résolutions d'un système projectif. [Spectral sequences and J -resolutions of a projective system] **86j:55012**
- Skordev, Gencho S. Zarelua's spectral sequence. (Russian) **86i:55024**
- 18G50** Nonabelian homological algebra [See also 19D99.]
- Brown, Ronald Nonabelian cohomology and the homotopy classification of maps. **86c:18012**
- Bullejos, Manuel See Cegarra, Antonio M., **86a:18019** and **86k:18005**
- Cegarra, Antonio M. (with Bullejos, Manuel) n -cocycles non abéliens. (English summary) [Nonabelian n -cocycles] **86a:18019**
- (with Bullejos, Manuel) Sur la théorie de l'obstruction de dimension n . (English summary) [On n -dimensional obstruction theory] **86k:18005**
- secondary classifications (18G50)
- Mac Lane, Saunders Applications of categorical algebra. (Russian) **86m:18006**
- (Skurikhin, E. E.) See Mac Lane, Saunders, **86m:18006**

18G55 Nonabelian homotopical algebra

Brown, Ronald Coproducts of crossed P -modules: applications to second homotopy groups and to the homology of groups. **86e:18017**

Meyer, Jean-Pierre Mappings of bar constructions. **86g:18011**
Bar and cobar constructions. I. **86g:18010**

secondary classifications (18G55)

Brini, Andrea (with Terrasi, Antonio) Homotopically invariant reductions of partially ordered sets. (Italian) **86j:06003**

Golasinski, M. Limits and colimits in the category of small categories. **86c:55018**
Terrasi, Antonio See Brini, Andrea, **86j:06003**

18G99 None of the above, but in this section

Franco Fernández, L. See Rodríguez Fernández, C., (**86g:00012a**)

Livshits, L. I. Universality of a tensor product in the category of abelian groups. (Russian) **86k:18006**

Rodríguez Fernández, C. (with Franco Fernández, L.) Cohomology in Ω -group varieties. (Spanish. English summary) (See **86g:00012a**)

secondary classifications (18G99)

Asnar García, E. R. $H^2(G, A)$ and obstructions to extensions in algebraic categories. (Spanish. English summary) (See **86g:00012a**)

Dwyer, William G. (with Kan, D. M.) Homotopy theory and simplicial groupoids. **86e:55016**

Golasinski, M. Closed models on the procategory of small categories and simplicial schemes. (Russian) **86b:18009**

Grandis, Marco The running knot theorem for idempotent categories. (Italian summary) **86i:18003**

Handel, David Thom modules. **86k:55003**

He, Zhang Xu Homotopy and injective and projective objects. (Romanian) (See **86j:53002**)

Hilton, Peter Localization of crossed-modules. **86a:20036**

Jara Martínez, Pascual Special extensions in the cohomology of groups. (Spanish. English summary) (See **86g:00012a**)

Kalmbach, Gudrun Ordered sets and homology. **86a:06013**

Kan, D. M. See Dwyer, William G., **86e:55016**

Kudo, Tatsuji Matrices with morphism components and pushout calculus. **86a:18003**

Porter, Timothy Categorical shape theory. **86a:55013**

Prouté, Alain Sur la diagonale d'Alexander-Whitney. (English summary) [On the Alexander-Whitney diagonal] **86a:55009**

Retakh, V. S. Opérations de Massey, la construction S et extensions de Yoneda. (English summary) [Massey operations, S -construction and Yoneda extensions] **86d:18009**

Ulbrich, K.-H. Kohärenz in Kategorien mit Gruppenstruktur. III. [Coherence in categories with group structure. III] **86a:18011**

Group cohomology for Picard categories. **86h:18003**

Vogel, Pierre On Steenrod's problem for nonabelian finite groups. **86e:55015**

19-XX K-THEORY (TO BE USED ONLY FOR SECONDARY CLASSIFICATIONS, UNTIL FURTHER NOTICE)

[See also 18A54, 18F25.]

secondary classifications (19-XX)

Swallen, A. A. Algebraic K -theory (in the Mathematics Institute of the Academy of Sciences). (Russian) **86g:18009**

19-00 Handbooks, dictionaries, and other reference works

secondary classifications (19-00)

(Magurn, Bruce A.) See Reviews in K -theory, **86i:00023**

19-04 Explicit machine computation and programs (not the theory of computation or programming)

secondary classifications (19-04)

Stein, Michael R. Generating the cokernel of $K_3\mathbb{Z} \rightarrow K_3\mathbb{F}_7$. **86i:18015**

19-06 Proceedings, conferences, etc.

secondary classifications (19-06)

(Levitt, Norman) See Algebraic and geometric topology, **86e:57001**

(Quinn, Frank) See Algebraic and geometric topology, **86e:57001**

(Ranicki, A.) See Algebraic and geometric topology, **86e:57001**

Algebraic and geometric topology ★ Algebraic and geometric topology. **86e:57001**

Conference:

Surgery theory ★ Algebraic and geometric topology. **86e:57001**

New Brunswick, N.J. ★ Algebraic and geometric topology. **86e:57001**

19Axx Grothendieck groups and K_0 [See also 13D15, 18F30.]

19A13 Stability for projective modules [See also 13C10.]

secondary classifications (19A13)

Chakravarti, R. S. The basic element theorem for fully bounded rings and some applications. **86i:16024**

Goodearl, K. R. Cancellation of low-rank vector bundles. **86a:18013**

Rao, Ravi A. On projective R_{f_1, \dots, f_r} -modules. **86j:13011**

Stafford, J. T. Stably free, projective right ideals. **86i:16025**

19A15 Efficient generation

secondary classifications (19A15)

Carter, David (with Keller, Gordon) Elementary expressions for unimodular matrices. **86a:11023**

Keller, Gordon See Carter, David, **86a:11023**

19A22 Frobenius modules, induction theory

secondary classifications (19A22)

Kuku, Ademir O. Equivariant K -theory and the cohomology of profinite groups. **86h:18005**

Nicas, Andrew J. (with Stark, C. W.) K -theory and surgery of codimension-two torus actions on aspherical manifolds. **86m:57032**

Stark, C. W. See Nicas, Andrew J., **86m:57032**

19A31 K_0 of group rings and orders

secondary classifications (19A31)

Chakravarti, R. S. The basic element theorem for fully bounded rings and some applications. **86i:16024**

Collino, Alberto Torsion in the Chow group of codimension two: the case of varieties with isolated singularities. **86b:14005**

Kuku, Ademir O. K -theory of group-rings of finite groups over maximal orders in division algebras. **86d:18008**

Mitsuda, Tadaaki The Grothendieck group of a finite group which is a split extension by a nilpotent group. **86b:16022**

Taylor, Martin J. ★ Classgroups of group rings. **86c:11100**

Webb, David L. Grothendieck groups of dihedral and quaternion group rings. **86f:18019**

19A49 K_0 of other rings

secondary classifications (19A49)

Dayton, Barry H. K_0 of a union of planes through the origin. **86f:14005**

Moncasi, J. A regular ring whose K_0 is not a Riesz group. **86b:16023**

Pedrin, Claudio Vector bundles over singular affine surfaces. (Italian summary) **86b:14007**

19A99 None of the above, but in this section

secondary classifications (19A99)

Carral, Michel Modules projectifs sur les anneaux de fonctions. [Projective modules over rings of functions] **86j:13014**

Golasinski, M. Representability of the functor $K_0(\bar{K}_0)$ of the ring of 0-forms. (Russian) **86c:18006**

19Bxx Whitehead groups and K_1

19B10 Stable range conditions

secondary classifications (19B10)

Menal, Pere (with Moncasi, J.) K_1 of von Neumann regular rings. **86i:18014**

Remark on the stable range of C^* -algebras. **86h:46093**

Moncasi, J. See Menal, Pere, **86i:18014**

Vaserstein, L. N. Bass's first stable range condition. **86c:18009**

19B14 Stability for linear groups

secondary classifications (19B14)

Carter, David (with Keller, Gordon) Elementary expressions for unimodular matrices. **86a:11023**

Keller, Gordon See Carter, David, **86a:11023**

Liehl, Bernhard Beschränkte Wortlänge in SL_2 . [Bounded word length in SL_2] **86b:11034**

Petechuk, V. M. Isomorphisms of symplectic groups over commutative rings. (Russian) **86k:20038**

Platonov, V. P. (with Yanchevskii, V. I.) Dieudonné's conjecture on the structure of unitary groups and skew fields over Hensel fields. (Russian) **86c:11026**

Plotkin, E. B. Nest subgroups of twisted Chevalley groups. (Russian) **86m:20054**

Yanchevskii, V. I. See Platonov, V. P., **86c:11026**

19B28 K_1 of group rings and orders

secondary classifications (19B28)

- Nicas, Andrew J. On Wh_3 of a Bieberbach group. **86a:18015**
 Oliver, Robert An exact sequence involving $K_1(\mathbb{Z}_p\pi)$ and $K_2(\mathbb{Z}_p\pi)$. **86a:18016**
 Quinn, Frank Geometric algebra. **86m:57023**
 Vaserstein, L. N. Classical groups over rings. **86d:20056**

19B99 None of the above, but in this section

secondary classifications (19B99)

- Cohn, P. M. The divisor group of a fir. **86j:16005**
 Pittaluga, Marilena The automorphism group of a polynomial algebra. **86g:13002**
 Steinberger, Mark (with West, James) Equivariant h -cobordisms and finiteness obstructions. **86j:57019**
 West, James See Steinberger, Mark, **86j:57019**

19Cxx Steinberg groups and K_2 19C20 Symbols, presentations of K_2

secondary classifications (19C20)

- Guln, Daniel Cohomologie et homologie non abélienne des groupes. (English summary) [Nonabelian cohomology and homology of groups] **86j:20044**
 Kolster, Manfred General symbols and presentations of elementary linear groups. **86a:18014**
 K_2 of noncommutative local rings. **86k:16021**
 Weibel, C. Mennicke-type symbols for relative K_2 . **86c:13015**

19C25 Stability for K_2

secondary classifications (19C25)

- Keune, Frans The K_2 of a 1-fold stable ring. **86h:13012**
 Plotkin, E. B. Neat subgroups of twisted Chevalley groups. (Russian) **86m:20054**

19C30 K_2 and the Brauer group

secondary classifications (19C30)

- Araon, Jón Kr. A proof of Merkurjev's theorem. **86f:11029**
 Bak, Anthony A norm theorem for K_2 of global fields. **86b:18011**
 Collino, Alberto Torsion in the Chow group of codimension two: the case of varieties with isolated singularities. **86b:14005**
 Lewis, David W. The Merkurjev-Suslin theorem. **86a:12001**
 Suslin, A. A. Algebraic K -theory and the norm residue homomorphism. (Russian) **86j:11121**

19C40 Excision for K_2

secondary classifications (19C40)

- Geller, Susan C. (with Weibel, C.) Subgroups of the elementary and Steinberg groups of congruence level l^2 . **86c:18013**
 van der Kallen, Wilberd (with Stienstra, Jan) The relative K_2 of truncated polynomial rings. **86f:18017**
 Oliver, Robert An exact sequence involving $K_1(\mathbb{Z}_p\pi)$ and $K_2(\mathbb{Z}_p\pi)$. **86a:18016**
 Stienstra, Jan See van der Kallen, Wilberd, **86f:18017**
 Weibel, C. See Geller, Susan C., **86c:18013**

19C99 None of the above, but in this section

secondary classifications (19C99)

- Colliot-Thélène, Jean-Louis (with Raskind, Wayne) \mathcal{K}_2 -cohomology and the second Chow group. **86m:14005**
 Raskind, Wayne See Colliot-Thélène, Jean-Louis, **86m:14005**

19Dxx Higher algebraic K -theory19D06 Q - and plus-constructions

secondary classifications (19D06)

- Berrick, A. J. Group epimorphisms preserving perfect radicals, and the plus-construction. **86a:20056**
 Charney, Ruth On the problem of homology stability for congruence subgroups. **86b:20053**
 Keating, M. E. The K -theory of triangular rings and orders. **86b:18013**
 Nemytov, A. I. (with Solov'ev, Yu. P.) BN -pairs and Hermitian K -theory. (Russian) **86m:18008**
 Solov'ev, Yu. P. See Nemytov, A. I., **86m:18008**

19D10 Algebraic K -theory of spaces

secondary classifications (19D10)

- Bökstedt, Marcel The rational homotopy type of $\Omega Wh^{Diff}(\ast)$. **86c:18011**
 Hirata, Koichi (with Kono, Akira) On the algebraic K -cohomology of lens spaces. **86i:55006**
 Kono, Akira See Hirata, Koichi, **86i:55006**
 Vogell, Wolrad The canonical involution on the algebraic K -theory of spaces. **86b:18014**
 Waldhausen, Friedhelm Algebraic K -theory of spaces, localization, and the chromatic filtration of stable homotopy. **86c:57016**
 Algebraic K -theory of spaces. **86m:18011**

19D25 Karoubi-Villamayor-Gersten K -theory

secondary classifications (19D25)

- Burghes, D. (with Fiedorowicz, Z.) Hermitian algebraic K -theory of topological spaces. **86c:18005**
 Calvo, Adina K -théorie des anneaux ultramétriques. (English summary) [K -theory of ultrametric rings] **86k:46105**
 Fiedorowicz, Z. See Burghes, D., **86c:18005**
 Prasolov, A. V. On Karoubi-Villamayor and Quillen functors for triangular categories. (Russian. English summary) **86j:18011**

19D35 Negative K -theory, NK and Nil

secondary classifications (19D35)

- Igusa, Kiyoshi What happens to Hatcher and Wagoner's formulas for $\pi_0 C(M)$ when the first Postnikov invariant of M is nontrivial? **86a:57026**
 Nicas, Andrew J. On Wh_2 of a Bieberbach group. **86f:18018b**
 On the higher Whitehead groups of a Bieberbach group. **86f:18018a**
 Pedersen, Erik Kjaer K_{-} -invariants of chain complexes. **86g:18008**
 Quinn, Frank Geometric algebra. **86m:57023**
 Algebraic K -theory of poly-(finite or cyclic) groups. **86c:18015**
 Schultz, Reinhard E. Homotopy invariants and G -manifolds: a look at the past fifteen years. **86c:57037**
 Weibel, C. Negative K -theory of varieties with isolated singularities. **86d:14015**

19D45 Higher symbols, Milnor K -theory

secondary classifications (19D45)

- Kahn, Bruno L'anneau de Milnor d'un corps local à corps résiduel parfait. (English summary) [The Milnor ring of a local field with perfect residue field] **86f:11093**
 Sivitakif, I. Ya. Torsion in Milnor K -groups for a local field. (Russian) **86h:11108**
 Suslin, A. A. Homology of GL_n , characteristic classes and Milnor K -theory. **86f:11090a**
 Homology of GL_n , characteristic classes and Milnor K -theory. (Russian) **86f:11090b**

19D55 K -theory and homology

secondary classifications (19D55)

- Alsbett, Janet K -groups of rings and the homology of their elementary matrix groups. **86i:18012**
 Cartier, Pierre Homologie cyclique: rapport sur des travaux récents de Connes, Karoubi, Loday, Quillen... [Cyclic homology: report on recent work of Connes, Karoubi, Loday, Quillen...] **86c:18012**
 Charney, Ruth On the problem of homology stability for congruence subgroups. **86b:20053**
 Connes, Alain Cohomologie cyclique et foncteurs Ext^n . (English summary) [Cyclic cohomology and functors Ext^n] **86d:18007**
 Dwyer, William G. (with Hopkins, M. J.; Kan, D. M.) The homotopy theory of cyclic sets. **86m:55014**
 Evens, Leonard (with Priddy, Stewart B.) The cohomology of the semidihedral group. **86h:20075**
 Friedlander, Eric M. (with Mialin, Guido) Cohomology of classifying spaces of complex Lie groups and related discrete groups. **86j:55011**
 Gillet, Henri (with Thomason, Robert W.) The K -theory of strict Hensel local rings and a theorem of Suslin. **86c:18014**
 Goodwillie, Thomas G. On the general linear group and Hochschild homology. **86i:18013**
 Hopkins, M. J. See Dwyer, William G. et al., **86m:55014**
 van der Kallen, Wilberd (with Stienstra, Jan) The relative K_2 of truncated polynomial rings. **86f:18017**
 Kan, D. M. See Dwyer, William G. et al., **86m:55014**
 Kuku, Aderemi O. Equivariant K -theory and the cohomology of profinite groups. **86h:18005**
 Loday, Jean-Louis (with Quillen, Daniel G.) Cyclic homology and the Lie algebra homology of matrices. **86i:17003**
 Masuda, Tetsuya Dualité pour le produit croisé différentiel et sa cohomologie cyclique périodique. (English summary) [Duality for the differential crossed product and its periodic cyclic cohomology] **86m:46071**
 Mialin, Guido See Friedlander, Eric M., **86j:55011**
 Priddy, Stewart B. See Evens, Leonard, **86h:20075**
 Quillen, Daniel G. See Loday, Jean-Louis, **86i:17003**
 Schwartz, Lionel K -théorie des corps finis et homotopie stable du classifiant d'un groupe de Lie. [K -theory of finite fields and stable homotopy of the classifying space of a Lie group] **86c:55006**
 Staffeldt, R. E. Rational algebraic K -theory of certain truncated polynomial rings. **86m:18010**
 Stein, Michael R. Generating the cokernel of $K_3\mathbb{Z} \rightarrow K_3\mathbb{F}_7$. **86i:18015**

Stienstra, Jan See van der Kallen, Wilberd, 86f:18017
 Thomason, Robert W. See Gillet, Henri, 86c:18014

19D99 None of the above, but in this section

secondary classifications (19D99)

Hughes, C. Bruce Bounded homotopy equivalences of Hilbert cube manifolds. 86i:57020
 Joyal, André δ -anneaux et vecteurs de Witt. [δ -rings and Witt vectors] 86j:13023
 δ -anneaux et λ -anneaux. [δ -rings and λ -rings] 86j:13024
 Karoubi, Max Relations between algebraic K -theory and Hermitian K -theory. 86c:18007
 Kuku, Ademil O. K -theory of group-rings of finite groups over maximal orders in division algebras. 86d:18008
 Retakh, V. S. Opérations de Massey, la construction S et extensions de Yoneda. (English summary) [Massey operations, S -construction and Yoneda extensions] 86d:18009
 Suslin, A. A. On the K -theory of local fields. 86d:18010
 Vorst, Tom A survey on the K -theory of polynomial extensions. 86f:13008

19Exx K -theory in geometry

19E08 K -theory of schemes

secondary classifications (19E08)

Dwyer, William G. (with Friedlander, Eric M.) Étale K -theory of Azumaya algebras. 86j:18009
 Friedlander, Eric M. See Dwyer, William G., 86j:18009
 Gillet, Henri Homological descent for the K -theory of coherent sheaves. 86a:14016
 Grayson, Daniel R. Universal exactness in algebraic K -theory. 86f:18016
 Levine, Marc N. Bloch's formula for singular surfaces. 86k:14005
 Smalith, Victor Unitary K -homology and the Lichtenbaum-Quillen conjecture on the algebraic K -theory of schemes. 86c:18008

19E15 Algebraic cycles [See also 14C35.]

secondary classifications (19E15)

Collino, Alberto Torsion in the Chow group of codimension two: the case of varieties with isolated singularities. 86b:14005
 Washnitzer's conjecture and the cohomology of a variety with a single isolated singularity. 86k:14014
 Gillet, Henri Some new Gysin homomorphisms for the Chow homology of varieties. 86h:14004
 Levine, Marc N. Torsion zero-cycles on singular varieties. 86b:14003
 (with Weibel, C.) Zero cycles and complete intersections on singular varieties. 86k:14003
 Murra, Jacob P. Un résultat en théorie des cycles algébriques de codimension deux. (English summary) [A result in the theory of algebraic cycles of codimension two] 86c:14004
 Weibel, C. See Levine, Marc N., 86k:14003

19E20 Relatives with cohomology theories [See also 14F15.]

secondary classifications (19E20)

Collino, Alberto Torsion in the Chow group of codimension two: the case of varieties with isolated singularities. 86b:14005
 Colliot-Thélène, Jean-Louis (with Raskind, Wayne) K_2 -cohomology and the second Chow group. 86m:14005
 Gillet, Henri Intersection theory on algebraic stacks and Q -varieties. 86b:14006
 Raskind, Wayne See Colliot-Thélène, Jean-Louis, 86m:14005

19E99 None of the above, but in this section

secondary classifications (19E99)

Ramella, Luciana A geometric interpretation of one-dimensional quasiregular rings. 86d:14006

19Fxx K -theory in number theory [See also 11R70, 11S70.]

19F05 Generalized class field theory

secondary classifications (19F05)

Fröhlich, Albrecht \star Classgroups and Hermitian modules. 86g:11064
 Kahn, Bruno La deuxième classe de Stiefel-Whitney d'une représentation régulière. I. (English summary) [The second Stiefel-Whitney class of a regular representation. I] 86a:11015a
 La deuxième classe de Stiefel-Whitney d'une représentation régulière. II. (English summary) [The second Stiefel-Whitney class of a regular representation. II] 86a:11015b
 Vostokov, S. V. Explicit construction of the theory of class fields of a multidimensional local field. (Russian) 86m:11096

19F15 Symbols and arithmetic

secondary classifications (19F15)

Browkin, Jerzy See Hoffmann, B. et al., 86a:11040
 Hettling, K. F. See Hoffmann, B. et al., 86a:11040
 Hoffmann, B. (with Hettling, K. F.; Browkin, Jerzy) On the group generated by symbols in $K_2\mathcal{O}_F$ for real quadratic fields F . 86a:11040

19F27 Étale cohomology, higher regulators, zeta and L -functions [See also 11R42, 11S40, 14G10.]

secondary classifications (19F27)

Beilinson, A. Higher regulators and values of L -functions. (Russian) 86h:11103
 Charney, Ruth On the problem of homology stability for congruence subgroups. 86b:20053
 Dwyer, William G. (with Friedlander, Eric M.) Étale K -theory of Azumaya algebras. 86j:18009
 Friedlander, Eric M. (with Mielin, Guido) Cohomology of classifying spaces of complex Lie groups and related discrete groups. 86j:55011
 See also Dwyer, William G., 86j:18009
 Mielin, Guido See Friedlander, Eric M., 86j:55011
 Smalith, Victor l -adic and \mathbb{Z}/l^∞ -algebraic and topological K -theory. 86m:18009
 Soulé, Christophe The rank of étale cohomology of varieties over p -adic or number fields. 86b:14013
 Wagoner, J. B. A p -adic regulator problem in algebraic K -theory and group cohomology. 86b:11081

19F99 None of the above, but in this section

secondary classifications (19F99)

Ash, Avner (with Grayson, Daniel R.; Green, Philip) Computations of cuspidal cohomology of congruence subgroups of $SL(3, \mathbb{Z})$. 86g:11032
 Grayson, Daniel R. See Ash, Avner et al., 86g:11032
 Green, Philip See Ash, Avner et al., 86g:11032
 Schwermer, J. (with Vogtmann, Karen) The integral homology of SL_2 and PSL_2 of Euclidean imaginary quadratic integers. 86d:11046
 Vogtmann, Karen See Schwermer, J., 86d:11046

19Gxx K -theory of forms [See also 11Exx.]

19G12 Witt groups of rings [See also 11E81.]

secondary classifications (19G12)

Arason, Jón Kr. (with Elman, Richard; Jacob, Bill) The graded Witt ring and Galois cohomology. I. 86g:11020
 Boe, Rikert \star Quadratic forms, orderings and abstract Witt rings. 86h:11033
 Brumfiel, G. W. Witt rings and K -theory. 86b:18004
 Elman, Richard See Arason, Jón Kr. et al., 86g:11020
 Hillman, Jonathan A. Factorization of Kojima knots and hyperbolic concordance of Levine pairings. 86i:57024
 Jacob, Bill See Arason, Jón Kr. et al., 86g:11020
 Karoubi, Max Relations between algebraic K -theory and Hermitian K -theory. 86c:18007
 Litherland, R. A. Cobordism of satellite knots. 86k:57003
 Pardon, William A relation between Witt groups and zero-cycles in a regular ring. 86f:11031
 Vogel, Pierre Une nouvelle famille de groupes en L -théorie algébrique. [A new family of groups in algebraic L -theory] 86a:57029

19G24 L -theory of group rings [See also 11E81.]

secondary classifications (19G24)

Cappell, Sylvain E. (with Shaneson, Julius L.) Torsion in L -groups. 86m:57033
 Charney, Ruth On the problem of homology stability for congruence subgroups. 86b:20053
 Farrell, F. T. (with Hsiang, W. C.) On Novikov's conjecture for cocompact discrete subgroups of a Lie group. 86c:57032
 Hambleton, Ian (with Taylor, Laurence R.; Williams, Bruce) An introduction to maps between surgery obstruction groups. 86b:57017
 Hsiang, W. C. See Farrell, F. T., 86c:57032
 Kreck, M. \star Bordism of diffeomorphisms and related topics. 86b:57015
 Nicas, Andrew J. (with Stark, C. W.) K -theory and surgery of codimension-two torus actions on aspherical manifolds. 86m:57032
 Shaneson, Julius L. See Cappell, Sylvain E., 86m:57033
 Stark, C. W. See Nicas, Andrew J., 86m:57032
 (Stoltzfus, Neal W.) See Kreck, M., 86b:57015
 Taylor, Laurence R. See Hambleton, Ian et al., 86b:57017
 Vogel, Pierre Une nouvelle famille de groupes en L -théorie algébrique. [A new family of groups in algebraic L -theory] 86a:57029
 Williams, Bruce See Hambleton, Ian et al., 86b:57017

19G38 Relations with K -theory of rings

secondary classifications (19G38)

Nemytov, A. I. (with Solov'ev, Yu. P.) BN -pairs and Hermitian K -theory. (Russian) 86m:18008
 Solov'ev, Yu. P. See Nemytov, A. I., 86m:18008

19G99 None of the above, but in this section

secondary classifications (19G99)

- Hahn, Alexander J. A Hermitian Morita theorem for algebras with anti-structure. 86j:18010
 Handelmann, David Positive polynomials and product type actions of compact groups. 86b:46001
 Hillman, Jonathan A. Factorization of Kojima knots and hyperbolic concordance of Levine pairings. 86i:57024
 Satarov, Zh. S. Defining relations of the special unitary group over a quadratic extension of an ordered Euclidean field. (Russian) 86f:20034
 Sondergeld, Klaus-Peter Witt's theorem for square-free lattices over dyadic discrete valuation rings. 86d:11031

19Kxx *K*-theory and operator algebras [See mainly 46L80, and also 46M20.]19K14 K_0 as an ordered group, traces

secondary classifications (19K14)

- Mundici, Daniele Abstract model theory of many-valued logics and *K*-theory of certain C^* -algebras. 86m:03065
 Schröder, Herbert On the homotopy type of the regular group of a W^* -algebra. 86b:46118

19K33 EXT and *K*-homology

secondary classifications (19K33)

- Cuntz, Joachim *K*-theory and C^* -algebras. 86d:46071
 Patařaya, D. A. Duality of *K*-theory with *K*-homology for C^* -algebras. (Russian. English and Georgian summaries) 86f:46078
 Schochet, Claude Topological methods for C^* -algebras. III. Axiomatic homology. 86g:46102
 Topological methods for C^* -algebras. IV. Mod p homology. 86g:46103
 Skandalis, Georges Some remarks on Kasparov theory. 86c:46085
 Exact sequences for the Kasparov groups of graded algebras. 86d:46072
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 Valette, Alain *K*-theory for the reduced C^* -algebra of a semisimple Lie group with real rank 1 and finite centre. 86j:58145

19K56 Index theory

secondary classifications (19K56)

- Teleman, Nicolae The index theorem for topological manifolds. 86c:58137

19K99 None of the above, but in this section

secondary classifications (19K99)

- Connes, Alain (with Karoubi, Max) Caractère multiplicatif d'un module de Fredholm. (English summary) [Multiplicative character of a Fredholm module] 86g:58008
 Cuntz, Joachim *K*-theoretic amenability for discrete groups. 86c:46064
 Julg, Pierre (with Valette, Alain) *K*-moyennabilité pour les groupes opérant sur les arbres. (English summary) [*K*-amenability for groups acting on trees] 86m:46063
 (with Valette, Alain) *K*-theoretic amenability for $SL_2(\mathbb{Q}_p)$, and the action on the associated tree. 86b:22030
 (with Valette, Alain) Group actions on trees and *K*-amenability. 86m:46064
 Karoubi, Max See Connes, Alain, 86g:58008
 Prasolov, A. V. Algebraic *K*-theory of Banach algebras. (Russian. English summary) 86d:46074
 Valette, Alain See Julg, Pierre, 86b:22030; 86m:46063 and 86m:46064
 Yamagami, Shigeru On a continuous decomposition of the foliation C^* -algebra. 86c:46098

19Lxx Topological *K*-theory [See also 55N15, 55R50, 55S25.]19L20 *J*-homomorphism, Adams operations [See also 55Q50.]

secondary classifications (19L20)

- Hoffman, Peter N. (with Mess, G.) Generators for K_0K and K^0K . 86k:55018
 Mess, G. See Hoffman, Peter N., 86k:55018

19L41 Connective *K*-theory, cobordism [See also 55N22.]

secondary classifications (19L41)

- Khokhlov, A. V. (with Pashitnov, A. V.; Rudyak, Yu. B.) On the homotopical structure and applications of Morava's extraordinary *K*-theories. 86j:55008
 Pashitnov, A. V. See Khokhlov, A. V. et al., 86j:55008
 Rudyak, Yu. B. See Khokhlov, A. V. et al., 86j:55008
 Wilson, W. Stephen The Hopf ring for Morava *K*-theory. 86c:55008

19L47 Equivariant *K*-theory [See also 55N91, 55P91, 55Q91, 55R91, 55S91.]

secondary classifications (19L47)

- Haeblerly, J.-P. For $G = S^1$ there is no *G*-Chern character. 86k:55017
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 Lilevicius, Arunas Borsuk-Ulam theorems and *K*-theory degrees of maps. 86m:57039
 Weibel, C. Algebraic *K*-theory and the Adams ϵ -invariant. 86c:18010

19L64 Computations, geometric applications

secondary classifications (19L64)

- Caruso, J. (with Cohen, F. R.; May, J. P.; Taylor, Laurence R.) James maps, Segal maps, and the Kahn-Priddy theorem. 86g:55007
 Cohen, F. R. See Caruso, J. et al., 86g:55007
 May, J. P. See Caruso, J. et al., 86g:55007
 Taylor, Laurence R. See Caruso, J. et al., 86g:55007

19L99 None of the above, but in this section

secondary classifications (19L99)

- Bökstedt, Marcel The rational homotopy type of $\Omega W_h^{Diff}(\ast)$. 86c:18011
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 Minami, Haruo On the *K*-theory of $SO(n)$. 86b:55004

19M05 Miscellaneous applications of *K*-theory

secondary classifications (19M05)

- Hughes, C. Bruce Bounded homotopy equivalences of Hilbert cube manifolds. 86i:57020
 Litherland, R. A. Cobordism of satellite knots. 86k:57003
 Nicas, Andrew J. On Wh_2 of a Bieberbach group. 86f:18018b
 On the higher Whitehead groups of a Bieberbach group. 86f:18018a
 Schultz, Reinhard E. Homotopy invariants and *G*-manifolds: a look at the past fifteen years. 86c:57037
 Steinberger, Mark (with West, James) Equivariant *h*-cobordisms and finiteness obstructions. 86j:57019
 West, James See Steinberger, Mark, 86j:57019

20-XX GROUP THEORY AND GENERALIZATIONS

20-01 Elementary exposition; textbooks

- Calais, Josette ★ *Éléments de théorie des groupes.* (French) [Elements of group theory] 86c:20001
 Schnabel, Rudolf ★ *Elemente der Gruppentheorie.* (German) [Elements of group theory] 86d:20001
 Tits, J. *Symétries.* [Symmetries] 86i:20001
 Wong, W. J. Simple groups. 86c:20002

secondary classifications (20-01)

- Baglivo, Jenny A. (with Graver, Jack E.) ★ Incidence and symmetry in design and architecture. 86i:51001
 García, Arnaldo See Lequain, Yves, 86j:00004
 Graver, Jack E. See Baglivo, Jenny A., 86i:51001
 Grove, Larry C. ★ *Algebra.* 86j:00002
 Kaur, Gurprit See Singh, Prahlad, 86f:20038
 Lang, Serge ★ *Algebra.* 86j:00003
 Lequain, Yves (with García, Arnaldo) ★ *Álgebra: uma introdução.* (Portuguese) [An introduction to algebra] 86j:00004
 Lidl, Rudolf (with Pilz, Günter) ★ *Applied abstract algebra.* 86d:00002
 Pilz, Günter See Lidl, Rudolf, 86d:00002
 Singh, Prahlad (with Kaur, Gurprit) On com-solvable groups. 86f:20038
 White, Arthur ★ *Graphs, groups and surfaces.* 86d:05047

20-02 Advanced exposition (research surveys, monographs, etc.)

- Gorenstein, Daniel ★ *Конечные простые группы.* (Russian) [Finite simple groups] 86j:20001
 Hilton, Peter ★ *Nilpotente Gruppen und nilpotente Räume.* (German) [Nilpotent groups and nilpotent spaces] 86b:20001
 (Kostrikin, A. I.) See Gorenstein, Daniel, 86j:20001
 (Logunov, V. I.) See Gorenstein, Daniel, 86j:20001
 (Pfenniger, Markus) See Hilton, Peter, 86b:20001
 Plotkin, B. I. (with Vovsi, S. M.) ★ *Многообразие представлений групп.* (Russian) [Varieties of group representations] 86c:20001
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secondary classifications (20-02)

- Anderson, D. D. (with Johnson, E. W.) *Ideal theory in commutative semigroups.* 86c:20060

- Benson, David John ★ Modular representation theory: new trends and methods. 86g:20013
 Hartley, Brian Topics in the theory of nilpotent groups. 86g:20052
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 (Lyndon, Roger C.) See Schupp, Paul, 86i:20002
 Passman, Donald S. Group rings of polycyclic groups. 86e:16019
 Robinson, Derek J. S. Finiteness, solubility and nilpotence. 86c:20038
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20-03 Historical (must also be assigned at least one classification number from Section 01)

- (Lyndon, Roger C.) See Schupp, Paul, 86i:20002
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secondary classifications (20-03)

- (Green, J. A.) See Roseblade, James E., 86c:01056
 (Hall, Philip) See Roseblade, James E., 86c:01056
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 (Klein, Felix) See Hawkins, Thomas, 86c:01026
 (Lyndon, Roger C.) See Ratcliffe, John, 86c:20049
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 Malet, Antoni The genesis of group theory in the works of Galois. (Catalan) 86h:01045
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- Hall, Philip See Roseblade, James E., 86c:01056
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 Hall, Philip See Roseblade, James E., 86c:01056

20-04 Explicit machine computation and programs (not the theory of computation or programming)

- Conway, J. H. Character calisthenics. 86i:20003
 Eğecioğlu, Ömer Algorithms for the character theory of the symmetric group. (Not in MR)
 Gerratt, J. See Manley, J. C., 86a:20001
 Kantor, W. M. Note on polynomial-time group theory. (See 86j:20003)
 Manley, J. C. (with Gerratt, J.) DIRECTOR: a program for calculating representation matrices of the symmetric group in the Yamanouchi-Kotani basis or in a direct product basis. 86a:20001
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 Kenne, P. E. See Havas, George et al., 86b:20039
 Kolesova, G. (with McKay, John) Practical strategies for computing Galois groups. 86d:12002a
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 Leech, John Co-set enumeration. 86i:20052
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- Vaughan-Lee, M. R. An aspect of the nilpotent quotient algorithm. 86b:20040
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20-06 Proceedings, conferences, etc.

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 (Felt, Walter) See Proceedings: Rutgers group theory year, 86j:20003
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 (Göbel, Rüdiger) See Abelian groups and modules, 86f:20001
 (Gorenstein, Daniel) See Proceedings: Rutgers group theory year, 86j:20003
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 (Kim, A. C.) See Groups, 86b:20002
 (Lajos, S.) See Notes on semigroups, 86i:20005
 (Lyons, Richard) See Proceedings: Rutgers group theory year, 86j:20003
 (McKay, John) See Finite groups—coming of age, 86j:20002
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secondary classifications (20-06)

- (Hilton, Peter) See Topological topics, 86j:55002
 (Hotta, R.) See Algebraic groups and related topics, 86c:20049
 (Hsu, D. F.) See Nearfields and combinatorial designs, 86f:05002
 (James, I. M.) See Topological topics, 86j:55002
 (Lyapun, E. S.) See Properties of semigroups, 86d:20063
 (Nivat, M.) See Automata on infinite words, 86h:68006
 (Perrin, Dominique) See Automata on infinite words, 86h:68006
 Algebraic groups and related topics ★ Algebraic groups and related topics. 86c:20049
 Automata on infinite words ★ Automata on infinite words. 86h:68006
 Bibanda ★ Bibandas. [Bibanda]. 86i:16001
 Kyoto ★ Algebraic groups and related topics. 86c:20049
 Le Mont-Dore ★ Automata on infinite words. 86h:68006
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 Nearfields and combinatorial designs ★ Nearfields and combinatorial designs. 86f:05002
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 Spring school:
 Automata on infinite words ★ Automata on infinite words. 86h:68006
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 Topological topics ★ Topological topics. 86j:55002

20Axx Foundations

20A10 Metamathematical considerations {For word problems, see 20F10.}

secondary classifications (20A10)

- Abdrasakov, K. T. (with Khisamiev, N. G.) A criterion of strong constructivizability for a certain class of abelian p -groups. (Russian) **86g:03073**
- Fleischer, Isidore La classification élémentaire de groupes abéliens. (English summary) [The elementary classification of abelian groups] **86m:03057**
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- Khisamiev, N. G. See Abdrasakov, K. T., **86g:03073**
- Makanin, G. S. Decidability of the universal and positive theories of a free group. (Russian) **86c:03009**
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- Lawrence, John W. The definability of the commutator subgroup in a variety generated by a finite group. **86m:20001**
- Morosov, A. S. The group $\text{Aut}_r(Q, \leq)$ is not constructivizable. (Russian) **86g:20001**

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- Giorgetta, Donato (with Shelah, S.) Existentially closed structures in the power of the continuum. **86c:03035**
- Hodges, Wilfrid Finite extensions of finite groups. **86g:03059**
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- Khisamiev, N. G. The relation between constructivizability and strong constructivizability for various classes of abelian groups. (Russian) **86h:03080**
- Lenaki, Wolfgang Elimination of quantifiers for the theory of Archimedean ordered divisible groups in a logic with Ramsey quantifiers. **86k:03020**
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- Mekler, Alan H. See Eklöf, Paul C. et al., **86m:20062**
- Oger, F. Elementary equivalence and isomorphism of finitely generated nilpotent groups. **86c:20037**
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- Pappas, Peter The model-theoretic structure of abelian group rings. **86j:03036**
- Poisat, Bruno La structure géométrique des groupes stables. (English summary) [The geometric structure of stable groups] **86h:03057**
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- Rychkov, S. V. The problem of splitting of pure extensions of abelian groups and axiomatic set theory. (Russian) **86m:20065**
- Shelah, S. See Giorgetta, Donato, **86c:03035** and Eklöf, Paul C. et al., **86m:20062**
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- Gu, Wen Xiang Relations between the M -subgroups of homomorphic fuzzy groups with operators. (Chinese. English summary) **86b:20003**
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20Bxx Permutation groups

20B05 General theory for finite groups

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- Liebeck, Martin W. On the orders of transitive permutation groups. **86b:20001**
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- McKay, John (with Regener, E.) Actions of permutation groups on r -sets. **86j:20004**
- Moran, Gadi Chords in a circle and linear algebra over $\text{GF}(2)$. **86c:20003**
- Regener, E. See McKay, John, **86j:20004**
- Saxl, J. See Liebeck, Martin W., **(86j:20003)**
- Siemons, Johannes Permutation groups on unordered sets. I. **86g:20002**
- Stratton, A. E. Counting triangles by group theory. **86c:20002**
- Sushchanskii, V. I. See Vyshenskii, V. A., **86j:20005a**
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secondary classifications (20B05)

- van de Craats, J. (with Schoof, R. J.) On the normal subgroups of Rubik groups. **86d:20006**
- Deaconescu, Marian The fixed-point set for injective mappings. (Romanian summary) **86c:54050**
- Goesczyński, Piotr Commutator eigenvalue problem for finite groups. **86m:20019**
- Schoof, R. J. See van de Craats, J., **86d:20006**
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20B07 General theory for infinite groups

- Droste, Manfred Cubes of conjugacy classes covering the infinite symmetric group. **86g:20003**
- Fekete, A. E. Normal subgroups and invariants in the category of transformation groups. **86i:20009**
- Laue, Hartmut A cocycle construction for groups. **86a:20002**

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- Putt, Harold L. Partially ordered permutation groups. **86d:06024**
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- Sushchanskii, V. I. Wreath products of sequences of permutation groups, and finitely approximable groups. (Russian. English summary) **86i:20045**

20B10 Characterization theorems

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- Corrections and supplements to: "A note on the Mathieu groups M_{12} and M_{23} ". **86m:20003b**
- Pierce, R. S. Permutation representations with trivial set-stabilizers. **86j:20006**

secondary classifications (20B10)

- Akiyama, Kenzi On the Mathieu groups M_{12} and M_{23} . **86g:20004**

20B15 Uniprimitive groups

- Liebeck, Martin W. On minimal degrees and base sizes of primitive permutation groups. **86d:20004**
- Mortimer, Brian Simply primitive permutation groups of degree p^3 . **86c:20004**

secondary classifications (20B15)

- Praeger, Cheryl E. Symmetric graphs and the classification of the finite simple groups. **86f:05069**

20B20 Multiply transitive finite groups

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- On the Mathieu groups M_{12} and M_{23} . **86g:20004**
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- Soomro, Khuda Dino Primitive groups of degree $3p$. **86c:20006**

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- Harada, Koichiro On a commutative nonassociative algebra associated with a doubly transitive group. **86k:17001a**
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- Lorimer, Peter On projective planes of type $(4, m)$. **86d:51008**
- Malra, A. (with Srivatsa, V. V.) Parametrizations of Borel sets with large sections. **86k:54031**
- Neumann, Peter M. Some primitive permutation groups. **86d:20005**
- Perkel, Manley Trivalent polygonal graphs. **86i:05082**
- Saxl, J. See Liebeck, Martin W., **(86j:20003)**
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20B22 Multiply transitive infinite groups

- Neumann, Peter M. Some primitive permutation groups. **86d:20005**
- Wefelscheid, Heinrich Zur Nichtexistenz scharf 2-transitiver Permutationsmengen in scharf 3-fach transitiven Gruppen. (Italian summary) [On the nonexistence of sharply 2-transitive permutation sets in sharply 3-fold transitive groups] **86c:20003**
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secondary classifications (20B22)

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- Szabó, László Basic permutation groups on infinite sets. **86a:08004b**

20B25 Finite automorphism groups of algebraic, geometric, or combinatorial structures [See also 05Bxx, 12F10, 20G40, 20H30, 51-XX.]

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- Constantine, Gregory (with Kulkarni, Ravi S.) On a result of S. Delsarte. **86h:20002**
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 Gati, Georg Galois theory of tree extensions. **86i:20010**
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 Jha, Vikram On groups of Baer collineations acting on Cartesian and translation planes. **86b:20006**
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 Kulkarni, Ravi S. See Constantine, Gregory, **86h:20002**
 Lacaze, Jacqueline See Bénéteau, Lucien, **86e:20007**
 Lens, Hanfried Rubikwürfel, Mühlebreit und Gruppen. [Rubik's cube, nine men's morris, and groups] **86c:20008**
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 Schoof, R. J. See van de Craats, J., **86d:20006**
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 Weiss, Richard Mark Fischer's classification of groups generated by 3-transpositions. (See **86j:20003**)

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- Abdulrahman, Abdul Kareem See Narayana Rao, M. L. et al., **86k:51008**
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 Baranaki, V. A. Independence of lattices of congruences and groups of automorphisms of lattices. (Russian) **86m:08003**
 Barbosa, Danilo F. See Gonçalves, Adilson, **86h:51014**
 Billotti, Mauro (with Korchmáros, G.) On the action of $PSU(3, q^2)$ on an affine plane of order q^3 . **86m:51010**
 (with Micelli, Giuseppe) On translation transversal designs. **86i:05042**
 Brodsky, M. H. See Mosseri, R. et al., **86m:52009**
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 Chernak, A. L. Automorphisms of groves. (See **86j:20003**)
 Coxeter, H. S. M. (with Weiss, Asia Ivić) Twisted honeycombs $\{3, 5, 3\}_2$ and their groups. **86i:52004**
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 Culler, Marc Finite groups of outer automorphisms of a free group. **86g:20027**
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 Korchmáros, G. See Billotti, Mauro, **86m:51010**
 Lacaze, Jacqueline Automorphism groups of the Hall triple systems of class 2. **86c:05037**
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 Mansour, N. G. See Narayana Rao, M. L. et al., **86k:51008**
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 Niederreiter, Harald See Mullen, Gary L., **86f:11095**
 Osterburg, James (with Park, Jae Keol) Morita contexts and quotient rings of fixed rings. **86i:16014**
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 Pless, Vera On the existence of some extremal self-dual codes. **86g:94048**
 Praeger, Cheryl E. Imprimitivity symmetric graphs. **86k:05058**
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 Vithal Rao, G. See Narayana Rao, M. L. et al., **86k:51019**
 Weiss, Asia Ivić See Coxeter, H. S. M., **86i:52004**
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20B27 Infinite automorphism groups [See also 12F10.]

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- Baranaki, V. A. Independence of lattices of congruences and groups of automorphisms of lattices. (Russian) **86m:08003**
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 Jambu-Giraudet, Michèle Quelques remarques sur l'équivalence élémentaire entre groupes ou treillis d'automorphismes de chaînes 2-homogènes. (English summary) [Some remarks on elementary equivalence between groups or lattices of automorphisms of 2-homogeneous chains] **86j:03034**
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 Lascar, Daniel Sous groupes d'automorphismes d'une structure saturée. (English summary) [Subgroups of automorphisms of a saturated model] **86i:03044**
 Lloyd, Justin T. See Byrd, Richard D. et al., **86c:20053**
 Morozov, A. S. The group $\text{Aut}_*(Q, \leq)$ is not constructivizable. (Russian) **86g:20001**
 Pedersen, Franklin D. See Byrd, Richard D. et al., **86c:20053**
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20B30 Symmetric groups, general

- Barnabei, Marielena (with Cohen, Gérard Denis) Extremal bi-invariant distances on the symmetric group. (Italian. English summary) **86a:20005**
 Cohen, Gérard Denis See Barnabei, Marielena, **86a:20005**
 Han, Ying (with Li, Jun Jie; Wang, Shuang Wei; Zhuang, Qin) A proof of the normal unit formulas. (Chinese. English summary) **86h:20003**
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 Ryom, The Son The number of conjugacy classes containing substitutions as a power of definite order. (Korean. English summary) **86h:20004**
 Wang, Shuang Wei See Han, Ying et al., **86h:20003**
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- Al-Salman, S. A. On some $(2, 3, 16)$ -groups of degree N , $16 \leq N \leq 25$. **86i:20049**
 DeLaurentis, J. M. (with Pittel, B. G.) Random permutations and Brownian motion. **86h:60159**
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 Edmonds, Allan L. (with Livingston, Charles) Symmetric representations of knot groups. **86d:57003**
 Liebeck, Martin W. Permutation modules for rank 3 symplectic and orthogonal groups. **86d:20057**
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- Luo, Zhu Kai. Maximal subgroups of symmetric groups defined by a class of regular graphs. (Chinese) **86i:20012**
 Pittel, B. G. See DeLaurentis, J. M., **86h:80159**
 Reiner, David L. Enumeration in music theory. **86c:05021**
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20B35 Subgroups of symmetric groups

- Garsia, A. M. (with Stanton, Dennis) Group actions of Stanley-Reisner rings and invariants of permutation groups. **86f:20003**
 Luo, Zhu Kai. Maximal subgroups of symmetric groups defined by a class of regular graphs. (Chinese) **86i:20012**
 Mnukhin, V. B. Matrices associated with groups of permutations. (Russian) **86g:20005**
 Stanton, Dennis See Garsia, A. M., **86f:20003**
 Ustimenko-Bakumovskii, V. A. See Zhdan-Pushkin, V. V., **86g:20006**
 Zhdan-Pushkin, V. V. (with Ustimenko-Bakumovskii, V. A.) Maximality of $\text{PSP}(q)$, acting on three-dimensional completely isotropic subspaces. (Russian) **86g:20006**

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 Morris, Russell (with Watkins, William Earl) An invariant theory approach to graph enumeration. **86g:05047**
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- Brenner, J. L. (with Lyndon, Roger C.) A theorem of G. A. Miller on the order of the product of two permutations. I. **86h:20005**
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- Bennett, R. G. T. Ringing the changes. **86h:00006**
 Budkin, A. I. Quasi-identities and direct wreath products of groups. (Russian) **86d:20030**
 Kovács, L. G. Two results on wreath products. **86m:20035**
 McKensie, Pierre Permutations of bounded degree generate groups of polynomial diameter. **86h:88077**
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20Cxx Representation theory of groups [See also 19A22 (for representation rings and Burnside rings).]

secondary classifications (20Cxx)

- Gruenberg, K. W. On the indecomposability of certain relation cores. **86g:20043**

20C05 Group rings of finite groups and their modules [See also 16A26.]

- Barannik, V. F. (with Gudivok, P. M.; Rud'ko, V. P.) Tensor products of representations of finite groups over complete discretely valued rings. (Russian. English summary) **86g:20007**
 Besenrodt, Christine Some properties of periodic modules. **86e:20006**
 Gudivok, P. M. See Barannik, V. F. et al., **86g:20007**
 Guralnick, Robert M. (with Wales, D. B.) Subgroups inducing the same permutation representation. II. **86m:20006**
 Hales, Alfred W. Stable augmentation quotients of abelian groups. **86i:20013**
 Harada, Koichiro Commutative algebras associated with permutation groups. (See **86j:20003**)
 Harris, Morton E. Finite groups with exactly one p -block. (See **86j:20003**)
 Karpilovsky, G. A number of blocks of twisted group algebras. **86a:20006**
 Koshitani, Shigeo A remark on the Jacobson radical of a block ideal in a finite p -solvable group. **86f:20005**
 Lorens, Martin On Loewy lengths of projective modules for p -solvable groups. **86k:20001**
 Losey, Gerald (with Losey, Nora) The augmentation quotients of the groups of order 2^4 . **86e:20007**
 Losey, Nora See Losey, Gerald, **86e:20007**
 Mason, Geoffrey Frame-shapes and rational characters of finite groups. **86i:20014**
 Mollov, T. Zh. Invariants of pairs of semisimple group algebras of finite abelian p -groups. (Russian) **86g:20008**
 Motose, Kaoru On the nilpotency index of the radical of a group algebra. V. **86c:20009**
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 Roggenkamp, K. W. Automorphisms and isomorphisms of integral group rings of finite groups. (See **86b:20002**)
 Rud'ko, V. P. See Barannik, V. F. et al., **86g:20007**
 Schempp, Walter Identities and inequalities via symmetrization. **86g:20009**

- Shinya, Kazunari On the structure of the augmentation quotients relative to an N_p -series. **86h:20008**
 Wales, D. B. See Guralnick, Robert M., **86m:20006**

secondary classifications (20C05)

- Arnold, James E., Jr. The permutation projective dimension of odd p -groups. **86f:20058**
 Benson, David John \star Modular representation theory: new trends and methods. **86g:20013**
 Broué, Michel On Scott modules and p -permutation modules: an approach through the Brauer morphism. **86d:20010**
 Dias da Silva, J. A. On the closed left ideals of the group algebra CS_n . **86d:20018**
 tom Dieck, Tammo Über λ -Ringstrukturen auf dem Burnside-Ring. [On λ -ring structures on the Burnside ring] **86e:20014**
 Gluck, David Self-dual lattices for maximal orders in group algebras. **86f:20006**
 Hoehmann, K. (with Sehgal, Sudarshan K.; Weiss, Alfred R.) Cyclotomic units and the unit group of an elementary abelian group ring. **86j:11110**
 Kuku, Ademir O. K -theory of group-rings of finite groups over maximal orders in division algebras. **86d:18008**
 Miyamoto, Masahiko Grothendieck groups of integral nilpotent group rings. **86h:16012**
 Plotkin, B. I. (with Vovsi, S. M.) \star Многообразия представлений групп. (Russian) [Varieties of group representations] **86e:20001**
 Polcino Miles, Francisco César (with Sehgal, Sudarshan K.) Torsion units in integral group rings of metacyclic groups. **86i:16009**
 Razmyslov, Yu. P. See Zyirichev, A. N., **86j:16013**
 Sawada, Hideki On certain infinite-dimensional contragredient modules. **86d:20008**
 Schmid, Peter Extending irreducible representations of normal subgroups. **86m:20011**
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 Surówka, David B. A character theoretic proof of the homological Sylow theorem. **86f:20061**
 Vovsi, S. M. See Plotkin, B. I., **86e:20001**
 Webb, P. J. On the orthogonality coefficients for character tables of the Green ring of a finite group. **86a:20011**
 Weiss, Alfred R. See Hoehmann, K. et al., **86j:11110**
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20C07 Group rings of infinite groups and their modules [See also 16A27.]

- Berman, S. D. (with Buzási, Károly) Description of all finite-dimensional real representations of groups containing an infinite cyclic subgroup of finite index. (Russian) **86a:20007**
 Brookes, C. J. B. The primitivity of group rings of soluble groups with trivial periodic radical. **86k:20002**
 Buzási, Károly See Berman, S. D., **86a:20007**
 Cliff, Gerald H. Ranks of projective modules of group rings. **86e:20008**
 Gupta, Narain Fox subgroups of free groups. II. **86i:20015**
 Khambadkone, Meera Subgroup ideals in group rings. I. **86g:20010**
 On the structure of augmentation ideals in group rings. **86g:20011**
 Passman, Donald S. On the Goldie rank of group algebras. **86i:20016**
 Sawada, Hideki On certain infinite-dimensional contragredient modules. **86d:20008**
 Yunus, I. A. The generalized Magnus imbedding and certain residual properties of groups and group rings. (Russian) **86d:20009**

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- Artamonov, V. A. Projective modules over group rings of nilpotent groups. (Russian) **86e:16016**
 Bovdi, A. A. (with Gudivok, P. M.; Semir, M. S.) Normal group rings. (Russian) **86h:16013**
 Brookes, C. J. B. (with Brown, Kenneth A.) Primitive group rings and Noetherian rings of quotients. **86d:16014**
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 Gonçalves, Jairo Zacarias Normal and subnormal subgroups in the group of units of group rings. **86k:16005**
 Gudivok, P. M. See Bovdi, A. A. et al., **86h:16013**
 Karpilovsky, G. On group rings of ordered groups. **86k:16006**
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 Kolikov, K. Kh. Ideals of twisted group rings. (Russian) **86i:16010**
 Lorens, Martin On the transcendence degree of group algebras of nilpotent groups. **86c:16005**
 Makar-Limanov, L. On group rings of nilpotent groups. **86c:16006**
 Pappas, Peter The model-theoretic structure of abelian group rings. **86j:03036**
 Passman, Donald S. Group rings of polycyclic groups. **86e:16019**
 Semir, M. S. See Bovdi, A. A. et al., **86h:16013**
 Sharma, R. K. See Srivastava, J. B., **86j:17021**
 Smith, P. F. Some examples of maximal orders. **86i:16011**
 Srivastava, J. B. (with Sharma, R. K.) Associated Lie algebras of group algebras. **86j:17021**

20C10 Integral representations of finite groups

- Al-Sobeihy, A. A. On the group of units of $\mathbb{Z}[A_4]$. (Arabic summary) **86i:20017**
 Gluck, David Self-dual lattices for maximal orders in group algebras. **86f:20006**
 Theohari-Apostolidi, Th. On integral representations of twisted group rings. **86e:20009**

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- Besenrodt, Christine Some properties of periodic modules. **86e:20006**
 Fröhlich, Albrecht \star Classgroups and Hermitian modules. **86g:11064**

Kahn, Bruno La deuxième classe de Stiefel-Whitney d'une représentation régulière. I. (English summary) [The second Stiefel-Whitney class of a regular representation. I.] 86a:11015a

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Tambara, Daisuke p -local integral representations of $GL(2, p^n)$. 86g:20063

20C11 p -adic representations of finite groups

Broué, Michel On Scott modules and p -permutation modules: an approach through the Brauer morphism. 86d:20010

Mitsuda, Tadaaki Irreducible lattices belonging to integral blocks with dihedral defect groups in 2-solvable groups. 86k:20003

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Blau, Harvey I. On p -adic congruence of some class functions on a finite group. 86h:20007

20C12 Integral representations of infinite groups

Terterov, N. M. The homological description of representations of a group of type p^∞ over the ring of p -adic integers. (Russian) 86c:20011

20C15 Ordinary representations and characters

Blau, Harvey I. On p -adic congruence of some class functions on a finite group. 86h:20007

Brandis, Albrecht Über die Grade irreduzibler Charaktere endlicher Gruppen. [On the order of irreducible characters of finite groups] 86k:20004

Dade, Everett C. Generalized Clifford correspondences for group characters. 86c:20012

Darafshbakhsh, M. R. Computing the irreducible characters of the group $GL_2(2)$. 86k:20005

Enguehard, Michel Caractères irréductibles de $GL(n, q)$. (French) [Irreducible characters of $GL(n, q)$] 86f:20007

Ferguson, Pamela A. (with Turull, Alexandre) Prime characters and factorizations of quasisimple characters. 86j:20007

Frame, J. S. Class multipliers for the orthogonal groups over $GF(2)$. 86b:20007

Gluck, David The largest irreducible character degree of a finite group. 86f:20008

Gow, Roderick Two multiplicity-free permutation representations of the general linear group $GL(n, q^2)$. 86a:20008

Hekster, N. S. On finite groups all of whose irreducible complex characters are primitive. 86c:20013

Isaacs, I. M. Characters of subnormal subgroups of M -groups. 86a:20009

Kietzling, Dennis \star Structure and representations of Q -groups. 86d:20011

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Endliche auflösbare Gruppen, deren sämtliche Charaktergrade Primzahlpotenzen sind. [Finite solvable groups all of whose character degrees are prime powers] 86f:20009

Mes, B. A. Some properties of the graph of representations of a finite group. (Russian) 86c:20014

Ohmori, Zyoosyu Schur indices of some finite Chevalley groups of rank 2. I. 86j:20008

Parks, Alan E. Nilpotent by supersolvable M -groups. 86m:20010

The 2-part of the permutation index of a group character. 86h:20008a

Generalised permutation characters of solvable groups. 86h:20008b

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Suprunenko, D. A. Subspaces generated by rows of circulants, and minimal irreducible linear groups. (Russian) 86g:20012

Turull, Alexandre See Ferguson, Pamela A., 86j:20007

Wang, Kai On the character theory of normal subgroups. 86h:20009

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Andrews, George E. On the Wall polynomials and the L-M-W conjectures. 86b:33003

Asai, Teruaki The unipotent class functions of exceptional groups over finite fields. 86a:20046

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Aschbacher, M. (with Guralnick, Robert M.) Some applications of the first cohomology group. 86m:20060

Bannai, Eiichi Spherical designs and group representations. 86f:05039

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Turull, Alexandre Generic fixed point free action of arbitrary finite groups. **86a:20020**

Webb, Ursula Martin Using graphs to investigate the automorphism groups of nilpotent groups. **86e:20024**

You, Hong Automorphisms of unitary groups over finite fields. (Chinese. English summary) **86d:20058**

Zheng, Yan Lü Sylow theorems for some groups with operators. (Chinese. English summary) **86e:20025**

Zimmerman, Jay Finite groups which are automorphism groups of infinite groups only. **86b:20054**

Zomorrodian, Reza Nilpotent automorphism groups of Riemann surfaces. **86d:20059**

20D50 Covering of subgroups

Parmenter, M. M. Exact covering systems for groups. **86h:20029**

secondary classifications (20D50)

Maxson, Carlton J. Near-rings associated with generalized translation structures. **86i:51018**

20D60 Arithmetic and combinatorial problems

Cartwright, Mark Bounded conjugacy conditions. **86h:20030**

Dénes, J. (with Herman, Péter Z.) On the product of all elements in a finite group. **86c:20024**

On a generalization of the parity of permutations. (See **86i:20005**)

Ferguson, Pamela A. Complex linear groups of degree at most $v-3$. **86i:20035**

Herman, Péter Z. See Dénes, J., **86c:20024**

Hoghton, G. B. (with Keedwell, Anthony Donald) On the sequenceability of dihedral groups. **86a:20023**

Keedwell, Anthony Donald See Hoghton, G. B., **86a:20023**

Vera López, Antonio Relations among numbers associated with a group, using characters. (Spanish) (See **86h:00009b**)

The number of conjugacy classes in a finite nilpotent group. **86i:20036**

secondary classifications (20D60)

Faigle, Ulrich Incidence-geometric aspects of finite abelian groups. **86b:51014**

Greendlinger, Leonard (with Greendlinger, Martin) On three of Lyndon's results about maps. **86e:57012**

Greendlinger, Martin See Greendlinger, Leonard, **86e:57012**

Hau, D. F. (with Keedwell, Anthony Donald) Generalised complete mappings, neofields, sequenceable groups and block designs. II. **86k:05014**

Jungnickel, Dieter Lateinische Quadrate, ihre Geometrien und ihre Gruppen. [Latin squares, their geometries and their groups] **86g:05016**

Keedwell, Anthony Donald See Hau, D. F., **86k:05014**

de Launey, Warwick Generalised Hadamard matrices whose rows and columns form a group. **86a:05026**

Ma, Siu Lun Partial difference sets. **86h:05030**

Murty, Maruti Ram (with Murty, V. Kumar) On groups of squarefree order. **86c:11073**

Murty, V. Kumar See Murty, Maruti Ram, **86c:11073**

Parmenter, M. M. Exact covering systems for groups. **86h:20029**

Tretkoff, C. L. (with Tretkoff, M. D.) Combinatorial group theory, Riemann surfaces and differential equations. **86g:30055**

Tretkoff, M. D. See Tretkoff, C. L., **86g:30055**

20D99 None of the above, but in this section

Brauer, Wilfried On a theorem of Frobenius. (See **86g:00003**)

Gilman, R. H. An application of ultraproducts to finite groups. (See **86j:20003**)

Korsyukov, Yu. A. Finite \aleph_N -groups. II. (Russian) (See **86f:00007**)

Pasderski, Gerhard Induktive Isomorphie von Gruppen, deren Kommutatorgruppe Primzahlordnung besitzt. [Inductive isomorphism of groups with commutator group of prime order] **86b:20024**

Rowley, Peter S_3 -complexes and the alternating group of degree 7. **86i:20037**

secondary classifications (20D99)

Arács, J. (with Johnson, Ellis L.) Mappings and facets for nonabelian group problems. **86k:00093**

Barnabei, Marilena (with Cohen, Gérard Denis) Extremal bi-invariant distances on the symmetric group. (Italian. English summary) **86a:20005**

Blanchi, Maria Gracia Properties of Hall and Sylow type for the minimal N -complexes of a finite group. (Italian. English summary) **86g:20024**

Cardin, M. On a class of groups with many quasnormal subgroups. (Italian) **86g:20022**

Cohen, Gérard Denis See Barnabei, Marilena, **86a:20005**

Degroot, E. On a notion of decomposability in convexity structures. **86a:52001**

Hall, Marshall, Jr. Problems reducible to those on finite simple groups. (See **86j:20003**)

Harris, Morton E. Finite groups with exactly one p -block. (See **86j:20003**)

Humphreys, John F. A note on CLT groups. **86k:20018**

Johnson, Ellis L. See Arács, J., **86k:00093**

Kusennyi, N. F. (with Levshchenko, S. S.) A class of finite minimal nondispersive groups. (Russian) **86h:20028**

Levshchenko, S. S. See Kusennyi, N. F., **86h:20028**

Smith, Stephen D. Modular representations of Chevalley groups. **86k:20007**

Trachtenberg, E. A. Systems over finite groups as suboptimal Wiener filters: a comparative study. **86f:93037**

Van Maldeghem, H. σ -homotopy groups of Coxeter complexes. **86a:51030**

Vera López, Antonio (with Vera López, Juan) Classification of finite groups according to the number of conjugacy classes. **86j:20030**

Vera López, Juan See Vera López, Antonio, **86j:20030**

20Exx Structure and classification of infinite or finite groups

20E05 Free nonabelian groups

Culler, Marc Finite groups of outer automorphisms of a free group. **86g:20027**

Goldstein, Richard Z. (with Turner, Edward C.) Automorphisms of free groups and their fixed points. **86h:20031**

Hill, P. M. A residual property of free groups. **86f:20022**

Howie, James The p -adic topology on a free group: a counterexample. **86b:20025**

Macedonka-Nozalaka, Olga The abelian case of Solitar's conjecture on infinite Nielsen transformations. **86j:20025**

Stallings, John R. Surfaces in 3-manifolds. (See **86g:57002**)

Turner, Edward C. See Goldstein, Richard Z., **86h:20031**

secondary classifications (20E05)

Baumslag, Gilbert (with Roseblade, James E.) Subgroups of direct products of free groups. **86d:20028**

Cohen, Joel M. (with Trenholme, Alice R.) Orthogonal polynomials with a constant recursion formula and an application to harmonic analysis. **86d:42024**

Cohn, Harvey Mathematical microcosm of geodesics, free groups, and Markoff forms. **86c:11049**

Fay, Temple H. (with Thomas, Barbara V. Smith) Free topological groups are almost never locally invariant. **86h:22003**

Figà-Talamanca, Alessandro Harmonic analysis on discrete structures. (Italian) **86c:43001**

Gupta, Narain Fox subgroups of free groups. II. **86i:20015**

Howard, Paul E. Subgroups of a free group and the axiom of choice. **86m:04006**

Kabenyuk, M. I. Free subgroups of orthogonal groups. (Russian) **86i:20063**

Kolmakov, Yu. A. Finite approximability with respect to conjugacy of free polynilpotent groups. (Russian) **86b:20045**

Kuhn, Gabriella Convergence of Fourier series expansion related to free groups. **86h:43018**

Makanin, G. S. Decidability of the universal and positive theories of a free group. (Russian) **86c:03009**

Pytlík, Tadeusz Radial convolutors on free groups. **86j:43001**

Rasias, George M. Geometrical-topological proofs of a theorem of free groups. **86k:20036**

Rasborov, A. A. Systems of equations in a free group. (Russian) **86c:20033**

Remus, Dieter The number of T_2 -precompact group topologies on free groups. **86m:22003**

Roseblade, James E. See Baumslag, Gilbert, **86d:20028**

Stallings, John R. Finite graphs and free groups. (See **86g:57002**)

Thomas, Barbara V. Smith See Fay, Temple H., **86h:22003**

Tkachenko, M. G. On topologies of free groups. **86g:22003**

Trenholme, Alice R. See Cohen, Joel M., **86d:42024**

20E06 Free products, free products with amalgamation, Higman-Neumann-Neumann extensions, and generalizations

- Beauverkhoff, V. N. (with Grinblat, V. A.) Root closure in a free product of groups. (Russian) **86b:20026**
- Bekut', L. A. The centrally symmetric Novikov group. (Russian) **86g:20028**
- Brodskii, S. D. Equations over groups, and groups with one defining relation. (Russian) **86e:20026**
- Burns, R. G. (with Chau, T. C.) Another proof of the Gruhko-Neumann-Wagner theorem for free products. **86b:20032**
- Chau, T. C. See Burns, R. G., **86b:20032**
- Collins, Donald J. (with Zieschang, Heiner) On the Whitehead method in free products. **86b:20027**
- Grinblat, V. A. See Beauverkhoff, V. N., **86b:20026**
- Huber-Dyson, Verena HNN—constructing finite groups. **86e:20027**
- Imrich, Wilfried Gruhko's theorem. **86g:20029**
- Karras, Abe (with Pietrowski, Alfred; Solitar, Donald) Automorphisms of a free product with an amalgamated subgroup. **86b:20028**
- Longobardi, Patrizia (with Maj, Mercedes) Some groups whose lattice of normal subgroups is isomorphic to the lattice of normal subgroups of a free product. (Italian. English summary) **86a:20024**
- Meier, Berthold J. Amalgams of torsion-free nilpotent groups of class three. **86d:20027**
- Maj, Mercedes See Longobardi, Patrizia, **86a:20024**
- Meier, David A note on simple free products. **86b:20030**
- Embeddings into simple free products. **86f:20023**
- Pietrowski, Alfred See Karras, Abe et al., **86b:20028**
- Rosenberger, Gerhard Über Darstellungen von Elementen und Untergruppen in freien Produkten. [On representations of elements and subgroups in free products] **86m:20030**
- Shirvani, M. On residually finite HNN-extensions. **86g:20030**
- Shmel'kin, A. L. Approximation of the solvable product of groups. (Russian) **86k:20021**
- Solitar, Donald See Karras, Abe et al., **86b:20028**
- Zieschang, Heiner Subgroups of a free product of cyclic groups. (Russian) **86e:20028**
- See also Collins, Donald J., **86b:20027**

secondary classifications (20E06)

- Baumslag, Benjamin Free products of locally indicable groups with a single relator. **86b:20037**
- Brunner, A. M. (with Burns, R. G.; Solitar, Donald) The subgroup separability of free products of two free groups with cyclic amalgamation. **86e:20033**
- Burns, R. G. See Brunner, A. M. et al., **86e:20033**
- Cohen, Joel M. Radial functions on free products. **86c:22014**
- (with Trenholme, Alice R.) Orthogonal polynomials with a constant recursion formula and an application to harmonic analysis. **86d:42024**
- Fridman, M. A. On the question of Mal'tsev's postulate for T_m , n -operations. (Russian) **86b:20036**
- Iossi, Alessandra (with Picardello, Massimo A.) Graphs and convolution operators. **86b:22013**
- Karras, Abe (with Pietrowski, Alfred; Solitar, Donald) Some remarks on braid groups. **86b:20029**
- Marciński, Zbigniew S. A note on free products of linear groups. **86k:20037**
- Medvedev, N. Ya. The free product of Γ -torsion-free groups. (Russian) **86d:20046**
- Picardello, Massimo A. See Iossi, Alessandra, **86b:22013**
- Pietrowski, Alfred See Karras, Abe et al., **86b:20029**
- Solitar, Donald See Karras, Abe et al., **86b:20029** and Brunner, A. M. et al., **86e:20033**
- Trenholme, Alice R. See Cohen, Joel M., **86d:42024**

20E07 Subgroup theorems

- Baumslag, Gilbert (with Roseblade, James E.) Subgroups of direct products of free groups. **86d:20028**
- Bruno, Brunella On groups with "abelian by finite" proper subgroups. (Italian summary) **86b:20031**
- Cannonito, Frank B. On varietal analogs of Higman's embedding theorem. **86d:20029**
- Chernikov, N. S. Factorization of infinite groups by pairwise permutable subgroups. (Russian) **86e:20029**
- Chunikhin, S. A. Complex indexicals and sequential generalization of the Schur-Zassenhaus theorem. (Russian) **86j:20026**
- Kurdachenko, L. A. (with Kuzennyi, N. F.; Semko, N. N.) Groups with dense systems of infinite subgroups. (Russian. English summary) **86i:20038**
- Kuzennyi, N. F. See Kurdachenko, L. A. et al., **86i:20038**
- Lee, Youn A geometric method for presenting subgroups of discrete groups. **86b:20032**
- Liman, F. M. Groups with some systems of invariant p -subgroups. (Russian) **86i:20039**
- Morales, Juan Finite nonabelian groups with all proper normal subgroups abelian. (Italian. English summary) **86c:20025**
- Pérez Monasor, Francisco See Vera López, Antonio, **(86g:00012a)**
- Roseblade, James E. See Baumslag, Gilbert, **86d:20028**
- Semko, N. N. See Kurdachenko, L. A. et al., **86i:20038**
- Vera López, Antonio (with Pérez Monasor, Francisco) Finite groups with many normal subgroups. (Spanish) (See **86g:00012a**)

secondary classifications (20E07)

- Brunner, A. M. (with Burns, R. G.; Solitar, Donald) The subgroup separability of free products of two free groups with cyclic amalgamation. **86e:20033**
- Burns, R. G. See Brunner, A. M. et al., **86e:20033**
- Haran, Dan (with Lubotsky, Alexander) Maximal abelian subgroups of free profinite groups. **86d:20034**
- Karsel, H. (with Maxson, Carlton J.) Fibered groups with nontrivial centers. **86h:51026**
- Lubotsky, Alexander See Haran, Dan, **86d:20034**

- Maxson, Carlton J. See Karsel, H., **86h:51026**
- Singh, T. Gokulchandra A note on the restriction homomorphism. **86e:20056**
- Solitar, Donald See Brunner, A. M. et al., **86e:20033**
- Stallings, John R. Finite graphs and free groups. (See **86g:57002**)
- Zieschang, Heiner Subgroups of a free product of cyclic groups. (Russian) **86e:20028**

20E10 Quasivarieties and varieties of groups

- Budkin, A. I. Quasi-identities and direct wreath products of groups. (Russian) **86d:20030**
- Quasivarieties of groups without coverings. (Russian) **86k:20022**
- Cannonito, Frank B. Some remarks on the group variety N_2A . **86g:20031**
- Giri, R. D. On residual varieties of groups. **86g:20032**
- Howlett, Robert B. (with Livingston, Richard) On the laws of certain varieties of groups. **86e:20030**
- Kleiman, Yu. G. Bases of identities of some products of varieties of groups. (Russian) **86e:20031**
- Livingston, Richard See Howlett, Robert B., **86e:20030**
- Moghaddam, Mohammad Reza R. Calculation of the Baer invariant of certain groups. **86c:20026**
- Ol'shanskii, A. Yu. Varieties in which all finite groups are abelian. (Russian) **86d:20031**
- Pope, Alun Lloyd Almost free groups in varieties. **86d:20032**
- Tobin, S. J. Razmyslov and solvability. **86k:20023**

secondary classifications (20E10)

- Cannonito, Frank B. On varietal analogs of Higman's embedding theorem. **86d:20029**
- Franco Fernández, L. See Rodríguez Fernández, C., **(86g:00012a)**
- García, Octavio (with Larrón, A. F.; Taylor, Walter) On the lattice of interpretability types of varieties. **86e:08006b**
- (with Taylor, Walter) The lattice of interpretability types of varieties. **86e:08006a**
- Gurichenkov, S. A. Varieties of L -groups with identity $[x^p, y^p] = e$ are finitely based. (Russian) **86m:08031**
- Holland, W. Charles Varieties of automorphism groups of orders. **86c:06022**
- Kaur, Gurprit See Singh, Prahlad, **86f:20038**
- Larrón, A. F. See García, Octavio et al., **86e:08006b**
- Lawrence, John W. The definability of the commutator subgroup in a variety generated by a finite group. **86m:20001**
- Newman, M. F. Metabelian groups of prime-power exponent. **86m:20040**
- Rodríguez Fernández, C. (with Franco Fernández, L.) Cohomology in Ω -group varieties. (Spanish. English summary) (See **86g:00012a**)
- Shmel'kin, A. L. Approximation of the solvable product of groups. (Russian) **86k:20021**
- Singh, Prahlad (with Kaur, Gurprit) On com-solvable groups. **86f:20038**
- Sivák, Bohuslav The structure of the rings assigned to group varieties. (Russian summary) **86m:08014**
- Smith, Howard Groups with the subnormal join property. **86d:20033**
- Taylor, Walter See García, Octavio, **86e:08006a** and **86e:08006b**

20E15 Chains and lattices of subgroups, subnormal subgroups [See also 20F22.]

- Busetto, Giorgio Normal subgroups and projectivities. **86b:20033**
- Cardin, M. Quasnormality and modularity in some classes of groups with finiteness conditions. (Italian. English summary) **86g:20033**
- Curcio, Mario Recent results on minimal and maximal conditions for the subnormal subgroups of a group. (Italian. English summary) **86i:20040**
- Enaldi, Maurizio t -groups with special properties. (Italian. English summary) **86b:20033**
- Generalized quasi-Hamiltonian groups. (Italian. English summary) **86b:20034**
- Franciosi, Silvana See de Giovanni, Francesco, **86b:20035**
- de Giovanni, Francesco (with Franciosi, Silvana) Isomorphisms between subnormal structures of groups. (Italian. English summary) **86b:20035**
- Hršel, Karel (with Kopáček, Vojtěch) Representation approach to lattices of subgroups of space groups. (See **86b:81002**)
- Karbe, Manfred Unendliche Gruppen mit schwachen Kettenbedingungen für endlich erzeugte Untergruppen. [Infinite groups with weak chain conditions for finitely generated subgroups] **86j:20027**
- Kolke, Kazuhiko On some groups which are determined by their subgroup-lattices. **86g:20034**
- Kopáček, Vojtěch See Hršel, Karel, **(86b:81002)**
- Kurswell, Hans Endliche Gruppen mit vielen Untergruppen. [Finite groups with many subgroups] **86f:20024**
- Martínez López, Consuelo Centrality in a class of groups. (Spanish. English summary) (See **86h:00009b**)
- Maruo, Osamu Pseudocoalescent classes of groups. **86i:20041**
- Plaumann, P. (with Strambach, K.; Zacher, Giovanni) Gruppen mit geometrischen Abschnitten im Untergruppenverband. (English summary) [On groups with geometric sections in their lattice of subgroups] **86b:20034**
- Poland, John On verifying lattice isomorphisms between groups. **86i:20042**
- Schmidt, Roland Verbandstheoretische Charakterisierungen der Endlichkeit des Indexes einer Untergruppe in einer Gruppe. [Lattice-theoretic characterizations of the finiteness of the index of a subgroup in a group] **86g:20035**
- Affinities of groups. **86g:20036**
- Scoppola, Carlo Maria A lattice-theoretic characterization of the lattice of subgroups of an abelian group containing two independent aperiodic elements. (Italian) **86m:20031**
- Smith, Howard Subnormal joins and subgroups of finite index. **86g:20037**
- Groups with the subnormal join property. **86d:20033**
- The lower central series in some groups with the subnormal join property. **86f:20025**
- Strambach, K. See Plaumann, P. et al., **86b:20034**

- Subbotin, I. Ya. Unsolvability of periodic groups with invariator condition for normal subgroups. (Russian) **86e:20032**
- Titov, G. N. Lattice and group complementation in periodic locally solvable groups. (Russian) **86f:20026**
- Zacher, Giovanni. Join-homomorphisms of groups. (Italian. English summary) **86e:20027**
See also Plaumann, P. et al., **86h:20034**
- Zaitsev, D. I. Solvable factorable groups. (Russian) **86h:20035**

secondary classifications (20E15)

- Casolo, Carlo. On groups with all subgroups subnormal. **86m:20044**
- Elkalla, Hassan S. Subnormal subgroups in 3-manifold groups. **86d:57001**
- Guralnick, Robert M. Generation of the lower central series. II. **86e:20042**
- Hausen, Jutta. E -uniserial torsion-free abelian groups of finite rank. **86g:20069**
- Hu, M. E. The lattice of lattice ordered subgroups of a lattice ordered group. **86h:06033**
- Kostrikin, A. I. (with Kostrikin, I. A.; Ufnarovskii, V. A.) Invariant lattices of type G_2 and their groups of automorphisms. (Russian) **86g:11039**
- Kostrikin, I. A. See Kostrikin, A. I. et al., **86g:11039**
- Kratzer, Charles (with Thévenaz, Jacques) Fonction de Möbius d'un groupe fini et anneau de Burnside. [Möbius functions of finite groups and Burnside rings] **86k:20011**
- Longobardi, Patrizia (with Maj, Mercedes) Some groups whose lattice of normal subgroups is isomorphic to the lattice of normal subgroups of a free product. (Italian. English summary) **86a:20024**
- Maj, Mercedes. See Longobardi, Patrizia, **86a:20024**
- Shinya, Kasunari. On the structure of the augmentation quotients relative to an N_p -series. **86h:20006**
- Sosnovskii, Yu. V. Finitely presented solvable groups that do not satisfy the maximality condition for normal subgroups. (Russian) **86g:20049**
- Thévenaz, Jacques. See Kratzer, Charles, **86k:20011**
- Ufnarovskii, V. A. See Kostrikin, A. I. et al., **86g:11039**

20E18 Limits, profinite groups

- Ershov, Yu. L. Involutory groups. (Russian) **86m:20032**
- Haran, Dan. Nonfree torsion-free profinite groups with open free subgroups. **86i:20043**
(with Lubotzky, Alexander) Maximal abelian subgroups of free profinite groups. **86d:20034**
- Herfort, Wolfgang (with Ribes, Luis) Torsion elements and centralizers in free products of profinite groups. **86k:20024**
- Lubotzky, Alexander. See Haran, Dan, **86d:20034**
- McMullen, John R. The profinite completion of certain residually-finite p -groups. **86j:20028**
- Michalaki, Jacek. Inductive and projective limits of covering k -groups of n -groups. **86a:20025**
- Ribes, Luis. Frattini covers of profinite groups. **86f:20027**
See also Herfort, Wolfgang, **86k:20024**
- Torriani, Hugo H. Profinite completions of the fundamental group of the Klein bottle. **86m:20033**

secondary classifications (20E18)

- Lubotzky, Alexander (with Magid, Andy R.) Cohomology, Poincaré series, and group algebras of unipotent groups. **86h:20063**
- Magid, Andy R. See Lubotzky, Alexander, **86h:20063**
- Oger, F. The model theory of finitely generated finite-by-abelian groups. **86g:03060**
- Wülfel, Tilmann. On a class of pro- p groups occurring in Galois theory. **86j:12007**

20E22 Extensions, wreath products, and other compositions

- Amberg, Bernhard. On groups which are the product of abelian subgroups. **86m:20034**
- Bernal, Eulalio. On classes of groups closed under ultraproducts. (See **86h:00096b**)
- Dixon, Martyn R. (with Fournelle, Thomas A.) The indecomposability of certain wreath products indexed by partially ordered sets. **86i:20044**
- Fournelle, Thomas A. See Dixon, Martyn R., **86i:20044**
- Fridman, M. A. On the question of Mal'tsev's postulate for T_m, n -operations. (Russian) **86b:20036**
- Heineken, Hermann (with Lennox, John C.) A note on products of abelian groups. **86b:20061**
- Holt, D. F. (with Howlett, Robert B.) On groups which are the product of two abelian groups. **86f:20028**
- Howlett, Robert B. See Holt, D. F., **86f:20028**
- Kovács, L. G. Two results on wreath products. **86m:20035**
- Lafuente, Julio. On restricted twisted wreath products of groups. **86a:20026**
- Lakatous, Pirotska. The nilpotency class of a multiple wreath product of cyclic groups of prime power orders. (Russian) **86k:20025**
- Lennox, John C. See Heineken, Hermann, **86b:20061**
- Marconi, Riccardo. On the nilpotence class of wreath products. (Italian) **86a:20027**
- Nachev, N. Finite 2-groups with a quotient-group with respect to the center of the fourth order. (Bulgarian. English and Russian summaries) (Not in MR)
- Ruis de Velasco y Bellas, Carlos (with Torres Iglesias, Miguel) The second centre of a wreath product of groups. **86a:20028**
- Sushchanskii, V. I. Wreath products of sequences of permutation groups, and finitely approximable groups. (Russian. English summary) **86i:20045**
- Torres Iglesias, Miguel. See Ruis de Velasco y Bellas, Carlos, **86a:20028**

secondary classifications (20E22)

- Albar, Muhammad A. On presentation of group extensions. **86g:20040**
- Bodnarchuk, Yu. V. The structure of the automorphism group of a nonstandard wreath product of a group. (Russian) **86c:20040**

- Bruno, Brunella. On groups with "abelian by finite" proper subgroups. (Italian summary) **86b:20031**
- Chernikov, N. S. Factoring of infinite groups under conditions of infinity. (Russian. English summary) **86i:20046**
- Gupta, Narain (with Sidki, Said) Extension of groups by tree automorphisms. **86e:20047**
Extending groups via tree automorphisms. (See **86b:20002**)
- Hanlon, Phil. The characters of the wreath product group acting on the homology groups of the Dowling lattices. **86j:05046**
- Hoffman, Peter N. (with Humphreys, John F.) Twisted products and projective representations of monomial groups. **86i:20019**
- Humphreys, John F. Conjugacy classes of double covers of monomial groups. **86f:20014**
See also Hoffman, Peter N., **86i:20019**
- Kletsing, Dennis. Structure and representations of Q -groups. **86d:20011**
- Lemalle, Claude. Localisation relative associée à une théorie de torsion. [Relative localization associated with a torsion theory] **86e:18009**
- Mullen, Gary L. (with Niederreiter, Harald) The structure of a group of permutation polynomials. **86f:11095**
- Niederreiter, Harald. See Mullen, Gary L., **86f:11095**
- Pitteri, M. On $(\nu + 1)$ -lattices. **86h:82054**
- Regev, A. Double centralizing theorems for wreath product. **86g:20015**
- Sidki, Said. See Gupta, Narain, **86e:20047**
- Yablun, Slavik. Groups of simple and multiple antisymmetry of borders. (Russian) **86m:20058**

20E25 Local properties

- Baumslag, Benjamin. Free products of locally indicable groups with a single relator. **86b:20037**
- Merslyakov, Yu. I. On the theory of locally polycyclic groups. **86m:20036**
- Tkachenko, A. N. Sylow subgroups of almost locally normal groups. (Russian) **86d:20035**
- Turau, Volker. Zentralisatoren in lokal endlichen Gruppen vom Chevalley-Typ. [Centralizers in locally finite groups of Chevalley type] **86g:20038**
- Weiss, Richard Mark. A uniqueness lemma for groups generated by 3-transpositions. **86h:20036**

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- Brodskii, S. D. Equations over groups, and groups with one defining relation. (Russian) **86e:20026**
- Brookes, C. J. B. (with Smith, Howard) A remark on products of locally soluble groups. **86e:20045**
- García Enaola, Marta. Properties of Fitting classes defined locally in locally finite solvable groups. (Spanish. English summary) (See **86h:00096b**)
- Marchionna Tibiletti, Cesarina. Locally finite groups with N -complexes given by subgroups. (Italian. English summary) **86m:20037**
- Robinson, Derek J. S. Finiteness, solubility and nilpotence. **86e:20038**
- Smith, Howard. See Brookes, C. J. B., **86e:20045**
- Thomas, Simon. Complete existentially closed locally finite groups. **86h:03064**
- Titov, G. N. Lattice and group complementation in periodic locally solvable groups. (Russian) **86f:20026**

20E26 Residual properties and generalizations

- Brunner, A. M. (with Burns, R. G.; Solitar, Donald) The subgroup separability of free products of two free groups with cyclic amalgamation. **86e:20033**
- Burns, R. G. See Brunner, A. M. et al., **86e:20033**
- Solitar, Donald. See Brunner, A. M. et al., **86e:20033**

secondary classifications (20E26)

- Groves, J. R. J. Some examples of finiteness conditions in centre-by-metabelian groups. **86b:20043**
- Hill, P. M. A residual property of free groups. **86f:20022**
- Kolmakov, Yu. A. Finite approximability with respect to conjugacy of free polynilpotent groups. (Russian) **86b:20045**
- Kurdachenko, L. A. Central factorizations of FC-groups. (Russian) **86h:20051**
- Long, D. D. Planar kernels in surface groups. **86c:57011**
- Shirvani, M. On residually finite HNN-extensions. **86g:20030**

20E28 Maximal subgroups, minimal subgroups

- Wilson, Robert A. The maximal subgroups of Conway's group $\cdot 2$. **86e:20034a**
The complex Leech lattice and maximal subgroups of the Suzuki group. **86e:20034b**
On maximal subgroups of the Fischer group F_{22} . **86e:20036**
The geometry and maximal subgroups of the simple groups of A. Rudvalis and J. Tits. **86e:20035**

secondary classifications (20E28)

- Darafsheh, M. R. Maximal subgroups of the group $GL_6(2)$. **86g:20062**

20E32 Simple groups [See also 20D05.]

- Deryabina, G. S. Infinite p -groups with cyclic subgroups. (Russian) **86b:20038**
- Morita, Jun. On adjoint Chevalley groups associated with completed Euclidean Lie algebras. **86e:20037**
- Scott, Elizabeth A. A construction which can be used to produce finitely presented infinite simple groups. **86f:20029a**
The embedding of certain linear and abelian groups in finitely presented simple groups. **86f:20029b**
A finitely presented simple group with unsolvable conjugacy problem. **86f:20029c**

secondary classifications (20E32)

- Gries, Robert L., Jr. The sporadic simple groups and construction of the Monster. **86m:20023**
- Holt, D. F. The triviality of the multiplier of Thompson's group F_3 . **86f:20017**
- Meier, David A note on simple free products. **86b:20030**
 Embeddings into simple free products. **86f:20033**
- Rudvalis, Arunas A rank 3 simple group of order $2^{14}3^55^7 \cdot 13 \cdot 29$. I. **86f:20018a**
 A rank 3 simple group G of order $2^{14}3^55^7 \cdot 13 \cdot 29$. II. Characters of G and \bar{G} . **86f:20018b**
- Turan, Volker Zentralisatoren in lokal endlichen Gruppen vom Chevalley-Typ. [Centralizers in locally finite groups of Chevalley type] **86g:20038**

20E34 General structure theorems

- Chernikov, N. S. Factoring of infinite groups under conditions of infinity. (Russian. English summary) **86i:20046**
- Cursio, Mario Classification of finite minimal nonmetacyclic groups. **86j:20029**
- Edjvet, M. (with Pride, Stephen J.) The concept of "largeness" in group theory. II. **86g:20039**
- Kuzennyi, N. F. See Levishchenko, S. S., **86i:20047**
- Levishchenko, S. S. (with Kuzennyi, N. F.) Nondispersive groups with some systems of dispersive subgroups. (Russian) **86i:20047**
- Marasch, V. S. Groups with the condition of N -invariance for noncyclic subgroups. (Russian) **86c:20028**
- Marchionna Tibiletti, Cesarina Locally finite groups with N -complexes given by subgroups. (Italian. English summary) **86m:20037**
- Muldagaliev, V. S. Structure of finite centralizer-factorable groups. (Russian) **86b:20037**
- Nachev, N. Group products. (Bulgarian. English and Russian summaries) **86m:20038**
- Pride, Stephen J. See Edjvet, M., **86g:20039**
- Semko, N. N. Nonperiodic groups with almost normal nonperiodic subgroups. (Russian) **86c:20028**
- Subbotin, I. Ya. The structure of nonperiodic groups with the invariator condition for normal subgroups. (Russian) **86c:20038**
- Vera López, Antonio (with Vera López, Juan) Classification of finite groups according to the number of conjugacy classes. **86j:20030**
- Vera López, Juan See Vera López, Antonio, **86j:20030**

secondary classifications (20E34)

- Chernikov, N. S. Factorization of infinite groups by pairwise permutable subgroups. (Russian) **86c:20029**
- Huebschmann, Johannes Nonplanarity of planar groups with reflections. **86c:20046**
- Maxson, Carlton J. (with Pils, Günter) Near-rings determined by fibered groups. **86f:16041**
- Pils, Günter See Maxson, Carlton J., **86f:16041**

20E36 General theorems concerning automorphisms of groups

- Robinson, Derek J. S. (with Wiegold, James) Groups with boundedly finite automorphism classes. **86a:20029**
- Roman'kov, V. A. Normal automorphisms of discrete groups. (Russian) **86k:20027**
- Thomas, Simon The automorphism tower problem. **86k:20028**
- Wiegold, James See Robinson, Derek J. S., **86a:20029**

secondary classifications (20E36)

- Andreadakis, S. Generators for $\text{Aut } G$, G free nilpotent. **86g:20051**
- Bachmuth, Seymour (with Mochisuki, Horace Y.) The finite generation of $\text{Aut}(G)$, G free metabelian of rank ≥ 4 . **86c:20039**
- Fukushima, Hiroshi Finite groups admitting an automorphism of prime order fixing an abelian 2-group. **86d:20026**
- Goldstein, Richard Z. (with Turner, Edward C.) Automorphisms of free groups and their fixed points. **86b:20031**
- Karras, Abe (with Pietrowski, Alfred; Solitar, Donald) Automorphisms of a free product with an amalgamated subgroup. **86b:20028**
- Laue, Hartmut A cocycle construction for groups. **86a:20002**
- Mochisuki, Horace Y. See Bachmuth, Seymour, **86c:20039**
- Pietrowski, Alfred See Karras, Abe et al., **86b:20028**
- Solitar, Donald See Karras, Abe et al., **86b:20028**
- Turner, Edward C. See Goldstein, Richard Z., **86b:20031**

20E99 None of the above, but in this section

- Maler, Berthold J. On existentially closed and generic nilpotent groups. **86a:20030**
- Moran, Gadi The products of conjugacy classes in some infinite simple groups. **86h:20036**
- Wetherill, B. W. Semidirect products of fuzzy subgroups. **86i:20048**

secondary classifications (20E99)

- Herfort, Wolfgang (with Manevitz, Larry Michael) Topological Frobenius groups. **86m:22001**
- Manevitz, Larry Michael See Herfort, Wolfgang, **86m:22001**
- Ribenbohm, P. Can one develop a noncommutative geometry for group theory? **86h:20055**
- Schmidt, Roland Affinities of groups. **86g:20036**

20Fxx Special aspects of infinite or finite groups

- Bolay, Ruhan Group representation of types. (Turkish. English summary) (Not in MR)

20F05 Generators, relations, and presentations

- Adyan, S. I. Studies in the Burnside problem and related questions. (Russian) **86h:20039**
- Albar, Muhammad A. On presentation of group extensions. **86g:20040**
 Analogues of the braid group and their corresponding Coxeter groups. **86g:20041**
- Allenby, R. B. J. T. (with Tang, C. Y.) Residual finiteness of certain 1-relator groups: extensions of results of Gilbert Baumslag. **86k:20029**
- Al-Salman, S. A. On some $(2, 3, 16)$ -groups of degree N , $16 \leq N \leq 25$. **86i:20049**
- Appel, Kenneth I. On Artin groups and Coxeter groups of large type. **86d:20036**
- Arrell, D. G. (with Robertson, E. F.) A modified Todd-Coxeter algorithm. **86g:20042**
- Beetham, M. J. Space saving in coset enumeration. **86i:20050**
- Brenner, J. L. (with Guralnick, Robert M.; Wiegold, James) Two-generator groups. III. **86f:20030**
- Campbell, C. M. (with Robertson, E. F.) On a class of groups related to $\text{SL}(2, 2^n)$. **86h:20040**
 (with Robertson, E. F.) On the $\text{F}_{a,b,c}$ conjecture. **86c:20029**
- Cannonito, Frank B. (with Gupta, Narain) On centre-by-free solvable groups. **86a:20031**
- Fridman, M. A. On the paper: "TVV-operations that can be determined by the biexpression $[x^m, y^n]'$ " [Modern algebra, No. 5 (Russian), 143-154, Leningrad Gos. Ped. Inst. Gertsena, Leningrad, 1976; MR 58 #22311]. (Russian) **86f:20031**
- Gilman, R. H. Enumerating infinitely many cosets. **86d:20037**
- Grigorchuk, R. I. Degrees of growth of finitely generated groups and the theory of invariant means. (Russian) **86h:20041**
- Grusberg, K. W. On the indecomposability of certain relation cores. **86g:20043**
- Gupta, Narain Recursively presented two generated infinite p -groups. **86f:20032**
 See also Cannonito, Frank B., **86a:20031**
- Guralnick, Robert M. See Brenner, J. L. et al., **86f:20030**
- Havas, George (with Kenne, P. E.; Richardson, J. S.; Robertson, E. F.) A Tietze transformation program. **86b:20039**
- Heimbeck, Günter Über eine Kennzeichnung der alternierenden Gruppe vom Grade 5. [On a characterization of the alternating group of degree 5] **86f:20033**
- Hill, P. M. (with Pride, Stephen J.) Commutators, generators and conjugacy equations in groups. **86i:20051**
- Kenne, P. E. See Havas, George et al., **86b:20039**
- Leech, John Coset enumeration. **86i:20052**
- Leedham-Green, C. R. A soluble group algorithm. **86c:20030**
- Marcus, Matthew A. All countable groups have cubic presentations. **86c:20031**
- Naphtine, A. K. Analogues of the braid group whose graphs are stars. **86g:20044**
- Neumann, B. H. Some finite groups with few defining relations. **86c:20032**
- O'Shanail, A. Yu. On a geometric method in the combinatorial group theory. **86j:20031**
- Perrin, Dominique (with Schupp, Paul) Sur les monoïdes à un relateur qui sont des groupes. (English summary) [One-relator monoids that are groups] **86d:20038**
- Pride, Stephen J. See Hill, P. M., **86i:20051**
- Richardson, J. S. See Havas, George et al., **86b:20039**
- Robertson, E. F. See Havas, George et al., **86b:20039**; Campbell, C. M., **86c:20029**; Arrell, D. G., **86g:20042** and Campbell, C. M., **86h:20040**
- Satarov, Zh. S. Defining relations of the special unitary group over a quadratic extension of an ordered Euclidean field. (Russian) **86f:20034**
- Schupp, Paul See Perrin, Dominique, **86d:20038**
- Stepin, A. M. A remark on the approximability of groups. (Russian) **86k:20030**
- Tang, C. Y. See Allenby, R. B. J. T., **86k:20029**
- Vaughan-Lee, M. R. An aspect of the nilpotent quotient algorithm. **86b:20040**
- Wiegold, James See Brenner, J. L. et al., **86f:20030**

secondary classifications (20F05)

- Biggs, N. L. Presentations for cubic graphs. **86b:05037**
- Billington, Nicholas Growth of groups and graded algebras. **86c:20039a**
 Erratum: "Growth of groups and graded algebras". **86c:20039b**
- Campbell, C. M. (with Robertson, E. F.) On the simple groups of order less than 10^5 . **86g:20018**
- Cannonito, Frank B. On varietal analogs of Higman's embedding theorem. **86d:20029**
- Gersten, S. M. A presentation for the special automorphism group of a free group. **86f:20041**
- Havas, George (with Robertson, E. F.) Two groups which act on cubic graphs. **86b:05038**
 (with Kovács, L. G.) Distinguishing eleven crossing knots. **86i:57007**
- Hill, P. M. A residual property of free groups. **86f:20022**
- Holt, D. F. The triviality of the multiplier of Thompson's group F_3 . **86f:20017**
- Johnson, David Lawrence Analogues of the braid group. **86h:20056**
- Kovács, L. G. See Havas, George, **86i:57007**
- Laue, R. (with Neubüser, J.; Schoenwaelder, U.) Algorithms for finite soluble groups and the SOGOS system. **86h:20023**
- Meier, David (with Rhemtulla, A. H.) Rank restricting properties of finitely generated soluble groups. **86m:20042**
- Murty, Maruti Ram (with Murty, V. Kumar) On groups of squarefree order. **86c:11073**
- Murty, V. Kumar See Murty, Maruti Ram, **86c:11073**
- Neubüser, J. See Laue, R. et al., **86h:20023**
- Rhemtulla, A. H. See Meier, David, **86m:20042**
- Robertson, E. F. See Havas, George, **86b:05038** and Campbell, C. M., **86g:20018**
- Schoenwaelder, U. See Laue, R. et al., **86h:20023**
- Scott, Elisabeth A. A construction which can be used to produce finitely presented infinite simple groups. **86f:20029a**
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- Sieradski, Allan J. A combinatorial interpretation of the third integral homology of a group. **86a:20058**

20F06 Cancellation theory

- Collins, Donald J. (with Perraud, Jean) Cohomology and finite subgroups of small cancellation quotients of free products. **86b:20041**
- Hoare, A. H. M. Length functions and algorithms in free groups. **86a:20032**
- Kalla, R. N. (with Rosenberger, Gerhard) Über Untergruppen ebener diskontinuierlicher Gruppen. [Subgroups of discontinuous planar groups] **86d:20039**
- Perraud, Jean See Collins, Donald J., **86b:20041**
- Rosenberger, Gerhard See Kalla, R. N., **86d:20039**

secondary classifications (20F06)

- Dô Long Vân The word and conjugacy problems for a class of groups with nonhomogeneous conditions of small cancellation. **86h:20043**
- O'hanakill, A. Yu. On a geometric method in the combinatorial group theory. **86j:20031**

20F10 Word problems, other decision problems, connections with logic and automata [See also 03D05, 03D40, 06B25, 08A50, 68Qxx.]

- Appa, A. B. Two counterexamples in N_0 -categorical groups. **86g:20045**
- Avenhaus, J. (with Madlener, K.) On the complexity of intersection and conjugacy problems in free groups. **86i:20053**
- Ballantyne, A. See Lankford, D. S. et al., **86e:20040**
- Baumslag, Gilbert Algorithmically insoluble problems about finitely presented solvable groups, Lie and associative algebras. **86i:20054**
- Billington, Nicholas Growth of groups and graded algebras. **86e:20039a**
Erratum: "Growth of groups and graded algebras". **86e:20039b**
- Butler, G. A. See Lankford, D. S. et al., **86e:20040**
- Cannon, James W. The combinatorial structure of cocompact discrete hyperbolic groups. **86j:20032**
- Cannonito, Frank B. On some algorithmic problems for finitely presented groups and Lie algebras. **86h:20042**
- Cornford, Leo P., Jr. (with Edmunds, Charles C.) Quadratic parametric equations over free groups. **86f:20035**
- Dixon, John D. The orbit-stabilizer problem for linear groups. **86m:20039**
- Dô Long Vân The word and conjugacy problems for a class of groups with nonhomogeneous conditions of small cancellation. **86h:20043**
- Edmunds, Charles C. See Cornford, Leo P., Jr., **86f:20035**
- Gilman, R. H. Computations with rational subsets of confluent groups. **86i:20055**
- Hurwits, R. Daniel A survey of the conjugacy problem. **86f:20036**
- Lankford, D. S. (with Butler, G. A.; Ballantyne, A.) A progress report on new decision algorithms for finitely presented abelian groups. **86e:20040**
- Madlener, K. See Avenhaus, J., **86i:20053**
- Makar-Limanov, L. (with Makar-Limanov (Chopenko), O.) On equations over groups. **86k:20031**
- Makar-Limanov (Chopenko), O. See Makar-Limanov, L., **86k:20031**
- Miech, R. J. On the isomorphism problem for 2-generator metabelian groups. **86h:20044**
- Rasborov, A. A. Systems of equations in a free group. (Russian) **86c:20033**
- Repin, N. N. Solvability of equations with one indeterminate in nilpotent groups. (Russian) **86d:20040**
- Robinson, Derek J. S. Decision problems for infinite soluble groups. **86f:20037**

secondary classifications (20F10)

- Anderson, D. D. (with Johnson, E. W.) Join-principally generated multiplicative lattices. **86a:06024**
- Besverkhin, V. N. (with Grinblat, V. A.) Root closure in a free product of groups. (Russian) **86b:20026**
- Bokut', L. A. The centrally symmetric Novikov group. (Russian) **86g:20028**
- Cannonito, Frank B. (with Gupta, Narain) On centre-by-free solvable groups. **86a:20031**
- Gilman, R. H. Enumerating infinitely many cosets. **86d:20037**
- Glass, A. M. W. (with Madden, James J.) The word problem versus the isomorphism problem. **86i:03059**
- Grinblat, V. A. See Besverkhin, V. N., **86b:20026**
- Gupta, Narain See Cannonito, Frank B., **86a:20031**
- Johnson, E. W. See Anderson, D. D., **86a:06024**
- Le Chenadec, Philippe Canonical forms in finitely presented algebras. **86g:68102**
- Madden, James J. See Glass, A. M. W., **86i:03059**
- Meier, David Embeddings into simple free products. **86f:20023**
- Otto, Friedrich Finite complete rewriting systems for the Jantzen monoid and the Greendlinger group. **86e:68067**
- Scott, Elisabeth A. A finitely presented simple group with unsolvable conjugacy problem. **86f:20029c**
- Stanley, Richard P. On the number of reduced decompositions of elements of Coxeter groups. **86i:05011**
- Stepin, A. M. A remark on the approximability of groups. (Russian) **86k:20030**

20F12 Commutator calculus

- Allambergenov, Kh. S. (with Roman'kov, V. A.) Products of commutators in groups. (Russian) **86e:20041**
- Guralnick, Robert M. Generation of the lower central series. II. **86e:20042**
- Newman, M. F. Metabelian groups of prime-power exponent. **86m:20040**
- Roman'kov, V. A. See Allambergenov, Kh. S., **86e:20041**

secondary classifications (20F12)

- Blackburn, Norman Groups of prime-power order having an abelian centralizer of type $(r, 1)$. **86e:20022**
- Cannonito, Frank B. (with Gupta, Narain) On centre-by-free solvable groups. **86a:20031**
- Gupta, Narain

20F14 Derived series, central series, and generalizations

- Gupta, Narain (with Hurley, T. C.; Levin, Frank) On the lower central factors of free centre-by-metabelian groups. **86h:20045**
- Hurley, T. C. See Gupta, Narain et al., **86h:20045**
- Kusennyi, N. F. (with Levishchenko, S. S.) Structure of finite minimal nondispersive groups. (Russian) **86a:20033**
- Levin, Frank See Gupta, Narain et al., **86h:20045**
- Levishchenko, S. S. See Kusennyi, N. F., **86a:20033**
- Wehrfritz, B. A. F. Addendum: "The upper central factors of certain skew-linear groups" [Arch. Math. (Basel) **40** (1983), no. 6, 481-494; MR **85c:20027**]. **86d:20041**

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- Dyer, Michael N. Subgroups with projective abelianization and trivial multiplier. **86c:57003**
- Guralnick, Robert M. Generation of the lower central series. II. **86e:20042**
- Labute, John P. The determination of the Lie algebra associated to the lower central series of a group. **86b:20049**
- Shmel'kin, A. L. Approximation of the solvable product of groups. (Russian) **86k:20021**
- Smith, Howard The lower central series in some groups with the subnormal join property. **86f:20025**

20F16 Solvable groups, supersolvable groups

- Agalakov, S. A. Finite separability of groups and Lie algebras. (Russian) **86d:20042**
- Artemovich, O. D. The structure of finite supersolvable groups with complemented nonabelian normal subgroups. (Russian) **86k:20032**
- Asaad, Mohamed Sufficient conditions for the solvability and supersolvability in finite groups. **86g:20046**
- Berger, T. R. (with Bryce, R. A.; Cossey, John) Quotient closed metanilpotent Fitting classes. **86b:20042**
- Boston, Nigel A class of soluble groups. **86c:20034**
- Bryce, R. A. See Berger, T. R. et al., **86b:20042**
- Chernikov, S. N. Supersolvable almost abelian A -groups satisfying the minimum condition. (Russian) **86m:20041**
- Cossey, John See Berger, T. R. et al., **86b:20042**
- Giordano, Gabriele On a class of Lagrangian groups. (Italian. English summary) **86e:20043**
- Gorbachev, V. I. Finite groups with supersolvable local subgroups. (Russian) **86g:20047**
- Groves, J. R. J. Some examples of finiteness conditions in centre-by-metabelian groups. **86b:20043**
- Heineken, Hermann (with Lennox, John C.) The subnormal embedding of complete groups. **86a:20034**
- Kaur, Gurprit See Singh, Prahlad, **86f:20038**
- Kusennyi, N. F. (with Semko, N. N.) The structure of solvable meta-Hamiltonian groups. (Russian. English summary) **86g:20048**
- Lennox, John C. See Heineken, Hermann, **86a:20034**
- Meier, David (with Rhemtulla, A. H.) On torsion-free groups of finite rank. **86d:20043**
(with Rhemtulla, A. H.) Rank restricting properties of finitely generated soluble groups. **86m:20042**
- Pashchyniy, A. G. Torsion in metabelian pro- p -groups with one relation. (Russian) **86h:20046**
- Rhemtulla, A. H. (with Smith, Howard) A finite index property of certain solvable groups. **86a:20035**
See also Meier, David, **86d:20043** and **86m:20042**
- Semko, N. N. See Kusennyi, N. F., **86g:20048**
- Singh, Prahlad (with Kaur, Gurprit) On com-solvable groups. **86f:20038**
- Smith, Howard See Rhemtulla, A. H., **86a:20035**
- Sonovskiy, Yu. V. Finitely presented solvable groups that do not satisfy the maximality condition for normal subgroups. (Russian) **86g:20049**
- Strebel, Ralph Finitely presented soluble groups. **86g:20050**
- Zhang, Ji Ping On finite PC groups. (Chinese) (Not in MR)

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- Baumslag, Gilbert Algorithmically insoluble problems about finitely presented solvable groups, Lie and associative algebras. **86i:20054**
- Brookes, C. J. B. (with Smith, Howard) A remark on products of locally soluble groups. **86e:20045**
- Cannonito, Frank B. On some algorithmic problems for finitely presented groups and Lie algebras. **86h:20042**
- Cardin, M. Quasinormality and modularity in some classes of groups with finiteness conditions. (Italian. English summary) **86g:20033**
- Cursio, Mario Recent results on minimal and maximal conditions for the subnormal subgroups of a group. (Italian. English summary) **86i:20040**
- Fukushima, Hiroshi Finite groups admitting an automorphism of prime order fixing an abelian 2-group. **86d:20026**
- Holland, W. Charles Varieties of automorphism groups of orders. **86c:06022**
- Kurdachenko, L. A. (with Tsahev, A. V.) Two-step solvable groups with weak minimality condition for normal subgroups. (Russian) **86g:20053**
- Myatsh, T. D. Criteria for π -supersolvability of finite groups. (Russian) **86j:20017**
- Newman, M. F. Metabelian groups of prime-power exponent. **86m:20040**
- Poletaikh, V. M. (with Suprun, O. N.) Solvable groups with closed subgroups of finite index. (Russian. English summary) **86e:22007**
- Robinson, Derek J. S. Finiteness, solubility and nilpotence. **86c:20038**
Decision problems for infinite soluble groups. **86f:20037**
- Seneviratne, H. H. G. On permutable subgroups of soluble minimax groups. **86i:20056**
- Smith, Howard See Brookes, C. J. B., **86e:20045**
- Suprun, O. N. See Poletaikh, V. M., **86e:22007**
- Tsahev, A. V. See Kurdachenko, L. A., **86g:20053**

Vareopoulos, N. Th. A potential theoretic property of soluble groups. (French summary) 86h:80015

20F17 Formations of groups [See also 20D10.]

Cortés Monleón, Amparo Constriction with respect to homomorphisms. (Spanish) 86h:20047

Skiba, A. N. The product of formations. (Russian) 86c:20035

Vorob'ev, N. T. A criterion for products of formations to be local. (Russian) 86b:20044

secondary classifications (20F17)

Cortés Monleón, Amparo Constriction with respect to formations with the Z -property. (Spanish) (See 86h:00096b)

Esquerro Marín, Luis Miguel \star \mathcal{F} -estabilidad, constricción y factorización de grupos finitos. (Spanish) [\mathcal{F} -stability, constraint and factorization of finite groups] 86a:20017

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20F18 Nilpotent groups

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 Stroth, G. (with Wong, Sia K.) Minimal parabolic systems involving S_5 and S_3 . (See **86j:20003**)
 Stuhler, Ulrich Über die Faktorkommutatorgruppe der Gruppen $SL_2(O)$ im Funktionenkörperfall. [On the factor commutator group of the groups $SL_2(O)$ in the function field case] **86m:11038**
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- Asekitov, N. U. Locally transitive linear algebraic groups over a field of positive characteristic. (Russian) (See 86f:00007)
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 Nushin, Ya. N. Groups contained between groups of Lie type over different fields. (Russian) 86h:20064
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20G20 Linear algebraic groups over the reals, the complexes, the quaternions

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20G30 Linear algebraic groups over global fields and their integers

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Dipper, Richard On the decomposition numbers of the finite general linear groups. **86i:20068**

Dye, Roger H. Maximal subgroups of the finite orthogonal and unitary groups stabilizing anisotropic subspaces. **86f:20048**

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Brown, Julia M. Newlin Constructions of finite proper projective planes from groups. **86f:51013**

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Curtis, Charles W. On Lusztig's isomorphism theorem for Hecke algebras. **86f:20042**

Darafsheh, M. R. On some characters of $GL_n(2)$. **86d:20017**

Ferguson, Pamela A. Complex linear groups of degree at most $v - 3$. **86i:20035**

Fong, P. Blocks of representations of classical groups. (See **86j:20003**)

Foulser, D. A. (with Johnson, Norman Lloyd) The translation planes of order q^2 that admit $SL(2, q)$ as a collineation group. II. Odd order. **86a:51017b**

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Stanton, Dennis Orthogonal polynomials and Chevalley groups. **86d:22008**

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20G45 Applications to physics; explicit representations

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Kotsev, J. N. Spin colour groups, their representations and exchange magnetic structures. (See **86i:81002**)

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Chen, Jin Quan (with Gao, Mei Juan; Chen, Xuan Gen) Coefficients of fractional parentage for $U(m + p/n + q) \supset U(m/n) \times U(p/q)$ and $U(m/n) \supset U(m) \times U(n)$. **86a:22038**

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Golubitsky, M. (with Stewart, Ian) Hopf bifurcation in the presence of symmetry. **86g:58034**

Hatch, Dorian M. (with Stokes, Harold T.) Listings of possible structural phase transitions. (See **86i:81002**)

Jaric, Marko V. How to calculate isotropy subgroups of a crystallographic space group. (See **86i:81002**)

Kim, Shoon Kyung The general expressions for the projective irreducible representations of the double point groups and their applications to the double space groups. (See **86i:81002**)

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Ott, Udo On finite geometries of type B_3 . **86g:51029a**

Putcha, Mohan S. Reductive groups and regular semigroups. **86d:20071**

Regular linear algebraic monoids. **86j:20057**

Rees, Sarah C_3 geometries arising from the Klein quadric. **86g:51029b**

Renner, Lex E. Reductive monoids are von Neumann regular. **86h:14001**

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20Hxx Other groups of matrices

20H05 Unimodular groups, congruence subgroups [See also 11F06, 19B37, 22E40, 51F20.]

Charney, Ruth On the problem of homology stability for congruence subgroups. **86b:20053**

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Geller, Susan C. (with Weibel, C.) Subgroups of the elementary and Steinberg groups of congruence level I^2 . **86c:18013**

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Mason, A. W. On nonnormal subgroups of $GL_n(A)$ which are normalized by elementary matrices. **86a:20052**

Mennicke, J. L. Discontinuous groups. **86j:22013**

Stothers, W. W. Level and index in the modular group. **86d:11033**

Tashetdinov, S. Subnormal structure of two-dimensional linear groups over local rings. (Russian) **86c:20047**

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20H10 Fuchsian groups and their generalizations [See also 11F06, 22E40, 30F35, 32Nxx.]

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Bujalance, Emilio (with Gamboa, J. M.) Automorphism groups of algebraic curves of R^n of genus 2. **86c:20045**

Churkin, V. A. On the theory of groups acting on trees. (Russian) **86b:20054**

Cohen, Jeffrey Mitchell Homomorphisms of cocompact Fuchsian groups on $PSL_2(\mathbb{Z}_p[x]/(f(x)))$. **86b:20055**

Etayo Gondejuela, J. J. On the order of automorphism groups of Klein surfaces. **86f:20053**

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- Agard, Stephen A geometric proof of Mostow's rigidity theorem for groups of divergence type. **86b:22017**
- Brenner, J. L. (with Lyndon, Roger C.) A theorem of G. A. Miller on the order of the product of two permutations. I. **86b:20005**
- Bujalance, Emilio (with Etayo, J. J.; Gamboa, J. M.) Hyperelliptic Klein surfaces. **86g:30057**
- Etayo, J. J. See Bujalance, Emilio et al., **86g:30057**
- Gamboa, J. M. See Bujalance, Emilio et al., **86g:30057**
- Hashimoto, Ki-ichiro On certain elliptic conjugacy classes of the Siegel modular group. **86m:11031**
- Huebschmann, Johannes Nonplanarity of planar groups with reflections. **86e:20046**
- Kra, Irwin On lifting Kleinian groups to $SL(2, \mathbb{C})$. **86b:30078**
- Lehner, J. (with Sheingorn, M.) Computing self-intersections of closed geodesics on finite-sheeted covers of the modular surface. **86e:11031**
- Lyndon, Roger C. See Brenner, J. L., **86b:20005**
- MacLachlan, C. On the structure of certain arithmetic subgroups of $SL_2(\mathbb{R})$. **86e:22018**
- Masumoto, Makoto Homomorphisms of finitely generated Kleinian groups. **86m:30048**
- Morosawa, Shunsuke (with Nakada, Masami) The Nielsen development and transitive points under a certain Fuchsian group. **86j:30066**
- Näätinen, Marjatta On the stability of identification patterns for Dirichlet regions. **86k:30054**
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- Ratner, Marina Factors of horocycle flows. **86a:58076**
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- Zieschang, Heiner \star Finite groups of mapping classes of surfaces. **86g:57001**

20H15 Other geometric groups, including crystallographic groups
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- Ahlfors, Lars V. Möbius transformations and Clifford numbers. **86g:20065**
- Ascher, Edgar (with Gay, David A.) Relative invariants of crystallographic point groups. **86e:20054**
- Billiet, Yves (with Sayari, Abdelhamid) Les sous-groupes isomorphes d'un groupe d'espace de type $p4$. I. Détermination univoque. (English summary) [Isomorphic subgroups of a space group of type $p4$. I. Single-valued determination] **86f:20056**
- Bujalance, Emilio On the structure of the automorphism group of a compact Klein surface with N boundary components ($1 \leq N \leq 4$). **86k:20043**
- Burslaff, H. (with Zimmermann, Helmuth Walter) SYMOP—an improved computer program for the derivation of symmetry operations from the space-group symbols. **86b:20056**
- Chuprunov, E. V. (with Tarkhova, T. N.) Invariant subgroups of space groups. **86e:20046**
- (with Kuntsevich, T. S.; Tarkhova, T. N.) Symmetrically nonequivalent regular systems of points in crystallographic groups. (Russian) **86f:20057**
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- Koch, Elke The implications of normalizers on group-subgroup relations between space groups. **86b:20057**
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- Rama Mohana Rao, K. Composition series and colour symmetry point groups. **86e:20055**
- Roth, Richard L. Coloring $p4m$ with two, four, and six colors. **86j:20042**
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- Senéchal, Marjorie Morphisms of crystallographic groups: kernels and images. **86i:20071**
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- Tarkhova, T. N. See Chuprunov, E. V., **86e:20046** and **86f:20057**
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- Andrushevskii, N. M. (with Zhidkov, N. P.; Shchedrin, B. M.; Malinovskii, T. I.) Determination of support fragments of a structure by the S -filtration method. (Russian) **86b:82025**
- Aschbacher, M. Finite geometries of type C_3 with flag-transitive groups. **86b:51023**
- Barbançon, G. (with Rais, Mustapha) Sur le théorème de Hilbert différentiable pour les groupes linéaires finis (d'après E. Noether). [On the differentiable Hilbert theorem for finite linear groups (following E. Noether)] **86b:58010**

- Belguith, Jamil (with Billiet, Yves; Weigel, D.) Les cristaux deux-colorés deux-dimensionnels considérés comme projections cotées de semi-cristaux $(2+1)$ -dimensionnels. (English summary) [Two-color two-dimensional crystals considered as heightened projections of $(2+1)$ -dimensional semicrystals] **86a:82031**
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- Birman, Joseph L. \star Theory of crystal space groups and lattice dynamics. **86b:82023**
- Björner, Anders Orderings of Coxeter groups. **86i:05024**
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- Burslaff, H. (with Zimmermann, Helmuth Walter) On the metrical properties of lattices. **86i:11029**
- Ceulemans, A. See Fowler, P. W., **86f:82048**
- Coxeter, H. S. M. Surprising relationships among unitary reflection groups. **86a:51033**
- Regular and semiregular polytopes. II. **86g:53011**
- Deodhar, Vinay V. On some geometric aspects of Bruhat orderings. I. A finer decomposition of Bruhat cells. **86f:20045**
- Effantin, J. M. See Weigel, D. et al., **86e:82054a** and Veyseyre, R. et al., **86e:82054b**
- Ellers, Erich W. (with Hähl, Hermann) A homogeneous description of inhomogeneous Minkowski groups. **86j:51022**
- Fowler, P. W. (with Ceulemans, A.) Symmetry relations in the property surfaces of icosahedral molecules. **86f:82048**
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- Krabbendam, H. See Pontenagel, W. M. G. F., **86a:82033**
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- Malinovskii, T. I. See Andrushevskii, N. M. et al., **86b:82025**
- Neri, R. See Kramer, P., **86e:52018**
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- Orlik, Peter (with Solomon, Louis) Arrangements in unitary and orthogonal geometry over finite fields. **86i:20070**
- Phan, Thérèse See Weigel, D. et al., **86e:82054a** and Veyseyre, R. et al., **86e:82054b**
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- Shchedrin, B. M. See Andrushevskii, N. M. et al., **86b:82025**
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- Solomon, Louis See Orlik, Peter, **86i:20070**
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- See also Weigel, D. et al., **86e:82054a**
- Vinberg, É. B. Absence of crystallographic groups of reflections in Lobachevskii spaces of large dimension. (Russian) **86i:22020**
- Hyperbolic groups of reflections. (Russian) **86m:53059**
- Weigel, D. (with Veyseyre, R.; Phan, Thérèse; Effantin, J. M.; Billiet, Yves) Crystallography, geometry and physics in higher dimensions. I. Point-symmetry operations. **86e:82054a**
- See also Belguith, Jamil et al., **86a:82031** and Veyseyre, R. et al., **86e:82054b**
- Widom, M. Icosahedral symmetry of a polytope model of glass. (See **86i:81002**)
- Wilker, J. B. Variations on a theme of Montgomery and Zippin. **86b:22021**
- Zhidkov, N. P. See Andrushevskii, N. M. et al., **86b:82025**
- Zikmund, Z. Symmetry of domain pairs and domain twins. **86e:82056**
- Zimmermann, Helmuth Walter See Burslaff, H., **86i:11029**

20H20 Other matrix groups over fields

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- Downey, R. G. See Berrick, A. J., **86b:20059**
- Knyazeva, V. F. Maximal abelian subgroups of a group of 1-triangular matrices over an arbitrary field. (Russian. English summary) **86b:20072**
- Koryukin, A. N. Noncommutative invariants of reductive groups. (Russian) **86g:20066**
- Schwartz, Binyamin (with Zaks, Abraham) Geometries of the projective matrix space. **86m:20059**
- Zaks, Abraham See Schwartz, Binyamin, **86m:20059**

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- Etayo Gondejuela, J. J. Klein surfaces with maximal symmetry and their groups of automorphisms. **86g:30058**
- Karbe, Manfred Unendliche Gruppen mit schwachen Kettenbedingungen für endlich erzeugte Untergruppen. [Infinite groups with weak chain conditions for finitely generated subgroups] **86j:20027**
- Trnková, Věra Arithmetical properties of the product of homeomorphism types of spaces. **86h:54005**
- Tsushima, Ryuji The spaces of Siegel cusp forms of degree two and the representation of $Sp(2, F_p)$. **86e:11035**
- Zaleskii, A. E. Linear groups. (Russian) **86b:20051**

20H25 Other matrix groups over rings

- Golubchik, I. Z. (with Mikhailov, A. V.) Elementary subgroup of a unitary group over a PI-ring. (Russian) **86g:20067**
- Mikhailov, A. V. See Golubchik, I. Z., **86g:20067**
- Tashetdinov, S. Subnormal structure of two-dimensional linear groups over local rings. (Russian) **86c:20047**
- Wehrfrits, B. A. F. Faithful representations of finitely generated abelian-by-polycyclic groups over division rings. **86c:20048**

secondary classifications (20H25)

- Chu, Hua The rows of a matrix in $E_2(R[x])$. **86b:13009**
- Kolotilina, L. Yu. The normalizer of the subgroup of diagonal matrices in the general linear group over a ring. (Russian) **86c:20043**
- Mennicke, J. L. Discontinuous groups. **86j:22013**
- Wehrfrits, B. A. F. Addendum: "The upper central factors of certain skew-linear groups" [Arch. Math. (Basel) **40** (1983), no. 6, 481-494; MR **85c:20027**]. **86d:20041**
- Zaleskii, A. E. Linear groups. (Russian) **86b:20051**

20H30 Other matrix groups over finite fields

- Hartley, Brian (with Shahabi Shojai, M. A.) Finite quasisimple groups of 2×2 matrices over a division ring. **86h:20073**
- Hering, Christoph Transitive linear groups and linear groups which contain irreducible subgroups of prime order. II. **86k:20046**
- Shahabi Shojai, M. A. See Hartley, Brian, **86h:20073**

secondary classifications (20H30)

- Büttner, Wolfram Eine Charakterisierung der Lüneburgenen. [A characterization of the Lüneburg planes] **86f:51014**
- Li, Shang Zhi Maximal subgroups containing root subgroups in finite classical groups. **86a:20055**
- Ronse, Christian On irreducible subgroups of $GL(n, q)$, q odd, which contain no four-group. **86m:20055**

20H99 None of the above, but in this section

secondary classifications (20H99)

- Barbosa, Danilo F. See Gonçalves, Adilson, **86h:51014**
- Gonçalves, Adilson (with Barbosa, Danilo F.) On collineation groups of projective planes of order $n \equiv -1 \pmod{6}$. **86h:51014**
- Kallaher, M. J. (with Ostrom, T. G.) Collineation groups whose order is divisible by a p -primitive divisor. **86h:51017**
- Komrakov, B. P. (with Premet, A. A.) The fundamental domain of an extended affine Weyl group. (Russian. English summary) **86d:17005**
- Koryukin, A. N. Noncommutative invariants of reductive groups. (Russian) **86g:20066**
- Ostrom, T. G. See Kallaher, M. J., **86h:51017**
- Premet, A. A. See Komrakov, B. P., **86d:17005**

20Jxx Connections with homological algebra and category theory

20J05 Homological methods in group theory

- Arnold, James E., Jr. The permutation projective dimension of odd p -groups. **86f:20058**
- Asmar García, E. R. $H^2(G, A)$ and obstructions to extensions in algebraic categories. (Spanish. English summary) (See **86g:00012a**)
- Berrick, A. J. Group epimorphisms preserving perfect radicals, and the plus-construction. **86a:20056**
- Chapman, G. R. A class of invariant polynomials and an application in group cohomology. **86b:20060**
- Conduché, Daniel Modules croisés généralisés de longueur 2. (English summary) [Generalized crossed modules of length 2] **86g:20068**
- Conrad, Bruce Crossed n -fold extensions of groups, n -fold extensions of modules, and higher multipliers. **86j:20043**
- Geoghegan, Ross (with Mihalik, Michael L.) Free abelian cohomology of groups and ends of universal covers. **86h:20074**
- Guin, Daniel Cohomologie et homologie non abélienne des groupes. (English summary) [Nonabelian cohomology and homology of groups] **86j:20044**
- Habegger, Nathan (with Jones, Vaughan; Pino Ortiz, Oscar; Ratcliffe, John) Relative cohomology of groups. **86f:20059**
- Jara Martínez, Pascual Special extensions in the cohomology of groups. (Spanish. English summary) (See **86g:00012a**)
- Jones, Vaughan See Habegger, Nathan et al., **86f:20059**
- (Lyndon, Roger C.) See Ratcliffe, John, **86c:20049**
- Mac Lane, Saunders Spectral complications in cohomology computations. **86d:20060**
- Mihalik, Michael L. Ends of groups with the integers as quotient. **86f:20060**
- See also Geoghegan, Ross, **86h:20074**
- Moncasi, J. p -torsion homology groups. (Spanish. English summary) (See **86h:00009b**)
- Pino Ortiz, Oscar See Habegger, Nathan et al., **86f:20059**
- Ratcliffe, John The cohomology ring of a one-relator group. **86a:20057**
- Lyndon's contribution to cohomology of groups. **86c:20049**
- See also Habegger, Nathan et al., **86f:20059**
- Sieradski, Allan J. A combinatorial interpretation of the third integral homology of a group. **86a:20058**
- Singh, T. Gokulchandra A note on the restriction homomorphism. **86e:20056**
- Stöhr, Ralph On Gupta representations of central extensions. **86a:20059**
- Surowaki, David B. A character theoretic proof of the homological Sylow theorem. **86f:20061**

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- Akyildis, Ersan Gysin homomorphism and Schubert calculus. **86d:14052**
- Allsade, R. G. Coperiodic groups and the functor \varprojlim^1 . (Russian. English and Azerbaijani summaries) **86f:20068**
- Baumslag, Gilbert (with Roseblade, James E.) Subgroups of direct products of free groups. **86d:20028**
- Bentzen, Steffen On the finiteness obstruction of certain periodic groups. **86m:57024**
- Berrick, A. J. (with Downey, R. G.) Perfect McLain groups are superperfect. **86b:20059**
- Cochran, T. A topological proof of Stallings' theorem on lower central series of groups. **86e:57002**
- Collins, Donald J. (with Perraud, Jean) Cohomology and finite subgroups of small cancellation quotients of free products. **86b:20041**
- Downey, R. G. See Berrick, A. J., **86b:20059**
- Dress, Andreas W. M. Trees, tight extensions of metric spaces, and the cohomological dimension of certain groups: a note on combinatorial properties of metric spaces. **86j:05053**
- Dyer, Michael N. Subgroups with projective abelianization and trivial multiplier. **86c:57003**
- Franco Fernández, L. See Rodríguez Fernández, C., (**86g:00012a**)
- Igodi, Paul Torsionfree 2-nilpotent groups and polynomial 2-cocycles. **86f:20039**
- Kahn, Bruno Classes de Stiefel-Whitney de formes quadratiques et de représentations galoisiennes réelles. [Stiefel-Whitney classes of quadratic forms and real Galois representations] **86g:12011**
- Kuku, Ademir O. Equivariant K -theory and the cohomology of profinite groups. **86h:18005**
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- Roseblade, James E. See Baumslag, Gilbert, **86d:20028**
- Smythe, N. Growth functions and Euler series. **86f:16002**
- Stuhler, Ulrich On Drinfel'd's modular curves. **86h:11046**
- Über die Faktorkommutatorgruppe der Gruppen $SL_2(O)$ im Funktionkörperfall. [On the factor commutator group of the groups $SL_2(O)$ in the function field case] **86m:11038**
- Tertserov, N. M. The homological description of representations of a group of type p^∞ over the ring of p -adic integers. (Russian) **86c:20011**

20J06 Cohomology of finite groups

- Aschbacher, M. (with Guralnick, Robert M.) Some applications of the first cohomology group. **86m:20060**
- Carlson, Jon F. The cohomology ring of a module. **86f:20062**
- Diethelm, Thomas (with Stambach, Urs) On the module structure of the mod p cohomology of a p -group. **86k:20047**
- The mod p cohomology rings of the nonabelian split metacyclic p -groups. **86c:20057**
- Evens, Leonard (with Priddy, Stewart B.) The cohomology of the semidihedral group. **86h:20075**
- Guralnick, Robert M. See Aschbacher, M., **86m:20060**
- Kimmerle, Wolfgang On the generation gap of a finite group. **86k:20048**
- Picaronny, Claudine Sur un théorème de Carlson. (English summary) [On a theorem of Carlson] **86a:20060**
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- Stambach, Urs See Diethelm, Thomas, **86k:20047**
- Thévenaz, Jacques The top homology of the lattice of subgroups of a soluble group. **86j:20045**

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- Alsbett, Janet K -groups of rings and the homology of their elementary matrix groups. **86i:18012**
- Donovan, P. W. Spectral duality for block cohomology. **86d:20013**
- Mitchell, Stephen A. (with Priddy, Stewart B.) Symmetric product spectra and splittings of classifying spaces. **86g:55009**
- Narzulaliev, U. Kh. Computation of Serre groups for modules of a certain class. (Russian) **86e:11109**
- Priddy, Stewart B. See Mitchell, Stephen A., **86g:55009**

20J10 Groups arising as cohomology groups

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- Surowaki, David B. Covers of simplicial complexes and applications to geometry. **86c:57001**
- Zieschang, Heiner ★ Finite groups of mapping classes of surfaces. **86g:57001**

20J15 Category of groups

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- Jara Martínez, Pascual A note on universal squares of groups. (Spanish. English summary) (See **86g:00012a**)
- Michalek, Jacek Inductive and projective limits of covering k -groups of n -groups. **86a:20025**

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- Bürgisser, B. (with Eckmann, Beno) The p -periodicity of the groups $GL(n, O_S(K))$ and $SL(n, O_S(K))$. 86a:20061
 Eckmann, Beno See Bürgisser, B., 86a:20061
 Talleli, Olympia On minimal resolutions for metacyclic groups with periodic cohomology. 86f:20063

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- Bullejos, Manuel See Cegarra, Antonio M., 86k:18005
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 Schwermer, J. (with Vogtmann, Karen) The integral homology of SL_2 and PSL_2 of Euclidean imaginary quadratic integers. 86d:11046
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20Kxx Abelian groups

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20K01 Finite abelian groups

- Szabó, S. A type of factorization of finite abelian groups. 86h:20076

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- Collings, Bruce Jay Generating the intrablock and interblock subgroups for confounding in general factorial experiments. 86c:62096
 Gallian, Joseph A. See Smith, Judy L., 86k:11073
 Ivić, Aleksandar On the number of abelian groups of a given order and the number of prime factors of an integer. (Serbo-Croatian summary) 86j:11088
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 ★ Симметрические функции и многочлены Холла. (Russian) [Symmetric functions and Hall polynomials] 86k:05001
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20K05 Finitely generated groups

- Osipova, L. I. (with Tikhomirova, E. S.) Inverse spectra of finitely generated abelian groups. (Russian) 86f:20064
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- Heineken, Hermann (with Lennox, John C.) A note on products of abelian groups. 86b:20061
 Illopoulos, Costas S. Analysis of algorithms on problems in general abelian groups. 86m:68072
 Lennox, John C. See Heineken, Hermann, 86b:20061

20K10 Torsion groups, primary groups and generalized primary groups

- Abdul-Karim, Fawzieh H. See Mohamed, Saad, 86c:20059
 Benabdallah, K. (with Bouabdillah, D.) Straight and strongly straight primary modules over principal ideal domains. 86i:20072
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 Cutler, Doyle Essentially C -indecomposable $p^{\omega+n}$ -projective p -groups. 86m:20061
 Eklof, Paul C. (with Huber, Martin) On ω -filtered vector spaces and their application to abelian p -groups. I. 86j:20046
 Hill, Paul The classification problem. 86f:20065
 (with Megibben, Charles) On the theory and classification of abelian p -groups. 86k:20049
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 Okuyama, Takashi On N -pure-high subgroups of abelian torsion groups. 86c:20060
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- Abdrasakov, K. T. (with Khisamiev, N. G.) A criterion of strong constructivizability for a certain class of abelian p -groups. (Russian) 86g:03073
 Benabdallah, K. (with Khabbaz, S. A.) A basis theorem for subgroups of bounded abelian groups. 86f:20067
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 Scott, Elizabeth A. The embedding of certain linear and abelian groups in finitely presented simple groups. 86f:20029b

20K15 Torsion free groups, finite rank

- Albrecht, Ulrich Endomorphism rings and A -projective torsion-free abelian groups. 86b:20063
 Arnold, David M. (with Vinsonhaler, C.) Typesets and cotypesets of rank-2 torsion free abelian groups. 86a:20063
 Burkhardt, Rolf On a special class of almost completely decomposable torsion free abelian groups. I. 86h:20077
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 Finite rank torsion-free abelian groups uniserial over their endomorphism rings. 86a:20064
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 Stelzer, J. A cancellation criterion for finite-rank torsion-free abelian groups. 86c:20062
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Lallement, Gerard Some problems on rational power-series in noncommuting variables. **86j:16004**

Lipton, Richard See Chandra, Ashok K. et al., **86m:68049**

Longo, Giuseppe See Bruce, Kim, **86a:03013**

Madlener, K. See Avenhaus, J., **86h:68083**

Mahr, Bernd Iteration and summability in semirings. **86m:16012**

Markov, Aleksandr Aleksandrovich Semantics and syntax of equivalent transformations in semigroups of controllable systems. (Russian) **86k:68075**

Otto, Friedrich Finite complete rewriting systems for the Jantzen monoid and the Greindlinger group. **86c:68067**

Pécuchet, Jean-Pierre Automates boustrophédon, semi-groupe de Birget et monoïde inversif libre. (English summary) [Two-way finite automata, Birget semigroups and free inverse monoids] **86k:68054**

Perrin, Dominique Completing bifix codes. **86b:68031**

Pin, J.-E. \ast Variétés de langages formels. (French) [Varieties of formal languages] **86a:68053**

(with Straubing, Howard; Thérien, Denis) Small varieties of finite semigroups and extensions. **86a:20073**

Rauzy, G. Mots infinis en arithmétique. [Infinite words in arithmetic] (See **86h:68006**)

(Schützenberger, M.-P.) See Pin, J.-E., **86a:68053**

Shelton, R. O. (with Soni, R. P.) Chains and fixing blocks in irreducible binary sequences. **86h:68097**

Shih, Hui Jan (with Tsai, Y. S.) On the syntactic monoids admitting ring structure. (See **86i:20005**)

Soni, R. P. See Shelton, R. O., **86h:68097**

Straubing, Howard See Pin, J.-E. et al., **86a:20073**

Takahashi, Masako See Kobayashi, Kojiro et al., **(86h:68006)**

Tanaka, Genjiro Finite Mealy-automata whose characteristic semigroups are simple. **86g:68126**

- Tetrushvili, M. R. Computational complexity of recognizing word equality in semi-groups of a certain class. (Russian. English and Georgian summaries) **86a:8044**
 Thérien, Denis See Pin, J.-E. et al., **86a:20073**
 Timmerman, Erick Yields of infinite trees. (French summary) **86i:68069**
 Tsai, Y. S. See Shih, Hui Jan, **(86i:20005)**
 Yamasaki, Hideo See Kobayashi, Kojiro et al., **(86h:68006)**

20M50 Connections with homological algebra and category theory

- Kilp, M. On completely flat monoids. (Russian and Estonian summaries) **86k:20059**
 Strong flatness of flat cyclic left acts. (Russian and Estonian summaries) **86k:20060**
 Skornjakov, L. A. Representation of monoids by multivalued mappings. (Russian) **86f:20084**
 Injective objects of categories of representations of monoids. (Russian) **86a:20086**
 secondary classifications (20M50)

- Babaei, Z. A. On relations of categories of linear spaces and semigroups. (Russian. English and Azerbaijani summaries) **86j:18006**
 Bulman-Fleming, Sydney (with McDowell, Kenneth P.) Left absolutely flat generalized inverse semigroups. **86i:20084**
 McDowell, Kenneth P. See Bulman-Fleming, Sydney, **86i:20084**
 Shoji, Kunitaka Completions and injective hulls of E -reflexive inverse semigroups. **86f:20061**
 Smythe, N. Growth functions and Euler series. **86f:16002**

20M99 None of the above, but in this section

- Cerla, Giangiacomo Some elementary concepts of L -semigroup theory. **86j:20071**
 Glasek, K. (with Gleichgewicht, B.) On 3-semigroups and 3-groups polynomial-derived from integral domains. **86i:20094**
 Gleichgewicht, B. See Glasek, K., **86i:20094**
 Hall, T. E. (with Munn, W. D.) The hypercore of a semigroup. **86j:20072a**
 Munn, W. D. Congruence-free regular semigroups. **86j:20072b**
 See also Hall, T. E., **86j:20072a**
 Sen, Mridul Kantil On Γ -semigroup. **86g:20087**
 Sim, Soon Klong Coproduct of weakly injective S -systems. **86f:20085**

secondary classifications (20M99)

- Aliev, V. G. Model companions of theories of classes of semigroups. (Russian. English and Azerbaijani summaries) **86j:03032**
 Arsov, J. Packing problems in semigroup programming. **86f:90124**
 Brucker, P. (with Papenjoanni, W.) An out-of-kilter method for the algebraic circulation problem. **86b:90085**
 Cao, Zhi Qiang An algebraic system generalizing the fuzzy subsets of a set. **86a:06007**
 Comparison between two kinds of semilattice-semigroups. **86m:16011**
 Hindman, Neil (with Pym, J. S.) Free groups and semigroups in $\beta\mathbb{N}$. **86c:20002**
 Krapeš, A. (with Taylor, Mark Adrian) On the Pexider equation. **86c:39010**
 Masurkiewicz, Antoni Traces, histories, graphs: instances of a process monoid. **86g:68052**
 Morikawa, Tetsuo Semigroup-theoretical structure of chemical reaction systems. **86b:80017**
 Papenjoanni, W. See Brucker, P., **86b:90085**
 Pym, J. S. See Hindman, Neil, **86c:20002**
 Renner, Lex E. Classification of semisimple rank one monoids. **86b:20052**
 Satyanarayana, M. On the additive semigroup of ordered semirings. **86g:06026**
 Taylor, Mark Adrian See Krapeš, A., **86c:39010**

20Nxx Other generalizations of groups

20N05 Loops, quasigroups [See also 05Bxx.]

- Belousov, V. D. ★ Парастрофно-ортогональные квазигруппы. (Russian) [Parastrophic-orthogonal quasigroups] **86f:20086**
 Quasigroups with completely cancellable balanced identities. (Russian) (Not in MR)
 Belyavskaya, G. B. (with Lumpov, A. D.) Cross product of two systems of quasigroups and its use in constructing partially orthogonal quasigroups. (Russian) (Not in MR)
 Bénéteau, Lucien Une conjecture sur les suites centrales d'une boucle de Moufang commutative libre. (English summary) [A conjecture on the central series of a free commutative Moufang loop] **86c:20074**
 (with Kepka, T.) Théorèmes de structure dans certains groupoides localement nilpotents. (English summary) [Structure theorems for some locally nilpotent groupoids] **86h:20101**
 (with Kepka, T.) Quasigroups trimédiaux et boucles de Moufang commutatives libres. (English summary) [Free trimedial quasigroups and free commutative Moufang loops] **86m:20080**
 Capodaglio di Cocco, Rita Loops and permutations. (Italian. English summary) **86i:20095**
 Chain, Orin (with Goodaire, Edgar G.) Isomorphism of loops which have alternative loop rings. **86a:20087**
 Duplák, Ján On quasi-identities of transitive quasigroups. (Russian summary) **86a:20088**
 Galkin, V. M. Sylow properties of a class of quasigroups. (Russian) **86d:20077**
 Symmetric quasigroups. (Russian) **86d:20078**
 Goodaire, Edgar G. See Chain, Orin, **86a:20087**
 Gvaramiya, A. A. Automata and quasigroups. (Russian. English and Georgian summaries) **86d:20079**
 Quasigroup classes that are invariant under isotopy, and abstract classes of invertible automata. (Russian) **86m:20081**

- Ihringer, Thomas Quasigroups, loops and centraliser rings. **86m:20082**
 Kepka, T. A construction of Bruck loops. **86f:20087**
 (with Němec, P.) Torsion quasimodules. **86i:20096**
 See also Bénéteau, Lucien, **86h:20101** and **86m:20080**
 Kitorogă, M. D. Some properties of A -quasigroups. (Russian) (Not in MR)
 Korovina, N. P. Isomorphisms of a class of quasigroups. (Russian) (Not in MR)
 Leong, Fook On extra elements of inverse property loops. **86m:20083**
 Liblcher, Jaroslav Stein algebras. (Czech summary) **86f:20088**
 Idempotent Stein algebras. (Czech summary) **86f:20089**
 Lumpov, A. D. See Belyavskaya, G. B. (Not in MR)
 Němec, P. See Kepka, T., **86i:20096**
 Ramamurthi, V. S. On Bol loops of order $4k$. (Russian and Czech summaries) **86c:20075**
 Sandu, N. I. Left-distributive quasigroups. (Russian) (Not in MR)
 Sharma, Bhagirath Lal Classification of Bol loops of order 18. (Russian and Czech summaries) **86c:20076**
 (with Solarin, A. R. T.) On Bol loops of order 16. I. **86a:20089**
 See also Solarin, A. R. T., **86c:20077** and **86g:20088**
 Shcherbakov, V. A. Some properties of the full associated group of an IP-loop. (Russian) **86i:20097**
 Sokolov, E. I. Principal isotrophies of a class of quasigroups. (Russian) (Not in MR)
 Solarin, A. R. T. (with Sharma, Bhagirath Lal) Some examples of Bol loops. (Russian and Czech summaries) **86c:20077**
 (with Sharma, Bhagirath Lal) On the construction of Bol loops. II. **86g:20088**
 See also Sharma, Bhagirath Lal, **86a:20089**
 Stepanova, A. A. Categorical quasivarieties of abelian groupoids and quasigroups. (Russian) **86a:20090**
 Taylor, Mark Adrian A closure condition which is equivalent to the Thomsen condition in quasigroups. **86a:20091**
 Ursu, V. I. Quasivarieties of commutative Moufang loops. (Russian) (Not in MR)
 Ušan, Janes On (k, n, q) -nets. (Serbo-Croatian summary) **86g:20089**

secondary classifications (20N05)

- Bariotti, Adriano Some results in geometry from the viewpoint of von Staudt. (Italian) **86b:51003**
 Belkirc, Wolfgang Über spezielle Kantenfärbungen und einen Zusammenhang zwischen Kantenfärbungen, Matrizen und Quasigruppen. (English and Russian summaries) [On special edge colorings and a connection between edge colorings, matrices, and quasigroups] **86a:05045a**
 Kantenfärbungen paarer Graphen, Matrizen und Quasigruppen. (English and Russian summaries) [Edge colorings of bipartite graphs, matrices, and quasigroups] **86a:05045b**
 Bénéteau, Lucien The geometry of distributive quasigroups. **86c:51004**
 The Hall triple systems of small class. **86b:05013**
 Gvaramiya, A. A. Functional equations of quasigroups, which are connected with partial identities of general associativity. (Russian) (Not in MR)
 Quasivarieties of automata. Relations with quasigroups. (Russian) **86m:68098**
 Ilse, D. (with Lehmann, I.; Schulz, Wolfgang) ★ Gruppoide und Funktionalgleichungen. (German) [Groupoids and functional equations] **86g:39002**
 Keedwell, Anthony Donald Decompositions of complete graphs defined by quasigroups. **86m:05069**
 Lehmann, I. See Ilse, D. et al., **86g:39002**
 Lindner, Charles C. Quasigroup identities and orthogonal arrays. **86f:05033**
 Mikheev, P. O. See Sabinin, L. V., **86k:53022**
 Osborn, J. Marshall Lie-admissible noncommutative Jordan loop rings. **86h:17025**
 Paunčić, Dj. (with Stojaković, Zoran) Parastrophic invariant n -quasigroups. (Serbo-Croatian summary) **86g:20091a**
 Sabinin, L. V. (with Mikheev, P. O.) The differential geometry of Bol loops. (Russian) **86k:53022**
 Schulz, Wolfgang See Ilse, D. et al., **86g:39002**
 Smith, J. D. H. Two enumeration principles for free algebras. (Russian and Czech summaries) **86h:08010**
 Stojaković, Zoran Alternating symmetric n -quasigroups. (Serbo-Croatian summary) **86g:20091b**
 See also Paunčić, Dj., **86g:20091a**
 Taylor, Mark Adrian Some varieties of groupoids which consist of abelian group or group isotopes. **86g:39011**
 Ušan, Janes A construction of special k -seminets. (Serbo-Croatian summary) **86k:51006**

20N10 Ternary systems (heaps, semiheaps, heapoids, etc.)

- Mustafae, L. G. Semiheaps of continuous mappings. (Russian) **86h:20102**
 Ramaswamy, V. Idempotent elements in associative triple systems. (Russian) **86g:20090**

secondary classifications (20N10)

- Bommireddy, M. (with Nagamuni Reddy, L.) Comparison and inversion of planar ternary rings with zero. **86b:51004**
 Nagamuni Reddy, L. See Bommireddy, M., **86b:51004**

20N15 n -ary systems

- Bektenov, A. S. A configuration in algebraic three-dimensional nets. (Russian) (Not in MR)
 Dudek, Wiesław A. (with Michalski, Jacek) On retracts of polyadic groups. **86h:20103**
 Lyakh, I. V. Parallel translations in algebraic nets. (Russian) (Not in MR)
 Markovski, Smile n -subgroupoids of commutative groupoids. (Macedonian summary) **86f:20090**
 Michalski, Jacek See Dudek, Wiesław A., **86h:20103**
 Muratkudshaev, S. Admissible n -quasigroups. The connection between admissibility and orthogonality. (Russian) (Not in MR)

- Paunlé, Dj. (with Stojaković, Zoran) Parastrophy invariant n -quasigroups. (Serbo-Croatian summary) **86g:20091a**
 Rusakov, S. A. On the axiomatics of topological n -ary groups. (Russian) **86i:20098**
 Stojaković, Zoran Alternating symmetric n -quasigroups. (Serbo-Croatian summary) **86g:20091b**

See also Paunlé, Dj., **86g:20091a**

- Trokhimenko, V. S. On the theory of restrictive Menger algebras. (Russian) **86b:20083**
 Ursu, L. A. On the property of invertibility of n -ary groups. (Russian) (Not in MR)
 Wanke-Jakubowska, M. B. (with Wanke-Jerie, M. E.) On representations of n -groups. **86g:20092**
 Wanke-Jerie, M. E. See Wanke-Jakubowska, M. B., **86g:20092**

secondary classifications (20N15)

- Kalaidjievski, S. Embedding of algebras in distributive semigroups. **86g:20078**
 Nikitin, A. N. Semisimple Artinian $(2, n)$ -rings. (Russian) **86a:16030**
 Romanowska, A. B. (with Smith, J. D. H.) \star Modal theory: an algebraic approach to order, geometry, and convexity. **86k:08001**
 Smith, J. D. H. See Romanowska, A. B., **86k:08001**
 Stojaković, Zoran On the spectrum of Mendelsohn n -tuple systems. **86k:05028**
 Topencharov, Vladimir V. Addendum to: "Elements of the theory of polyadic categories" [Algebra Universalis 7 (1977), no. 3, 277-293; MR 56 #3086]. (French) **86d:18004**

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- Birkenmeier, Gary F. Exponentiation and the identity $x^2y = (xy)^2$. **86b:20084**
 Buys, A. (with Gerber, G. K.) The Levitzki radical for Ω -groups. **86e:20078**
 (with Gerber, G. K.) Nil and s -prime Ω -groups. **86f:20091**
 Freni, Domenico Structure des hypergroupes quotients et des hypergroupes de type U. (English summary) [Structure of quotient hypergroups and hypergroups of type U] **86h:20104**
 Gerber, G. K. See Buys, A., **86e:20078** and **86f:20091**
 Gu, Wen Xiang The third isomorphism theorem of pointwise fuzzy groups with operators. (Chinese summary) **86d:20080**
 Huynh, Dũng T. Properties of congruences on commutative monoids. **86h:20105**
 Marcu, Dănuț Skew division belts. **86a:20079**
 Mushtaq, Qaiser Abelian groups defined by LA-semigroups. **86h:20106**
 Neuhäus, N. Über ein Hypergruppoid. (Romanian summary) [On a hypergroupoid] **86h:20107**
 Tallini, Giuseppe Geometric hyperquasigroups and line spaces. (Russian and Czech summaries) **86d:20081**
 Wu, Li Sheng On the n -versions of an R -module. (Chinese. English summary) **86e:20080**

secondary classifications (20N99)

- Anderson, Tim (with Kaarli, K.; Wiegandt, R.) Radicals and subdirect decomposition. **86d:16010**
 da Costa Reis, M. Raquel P. L'équivalence d'Artin dans les groupoides-treillis. [The Artin equivalence in groupoid lattices] (See **86j:00013**)
 Dudek, József On binary polynomials in idempotent commutative groupoids. **86a:08001**
 Freiman, G. A. Nonclosed semigroups with cancellation. **86h:08005**
 Glazek, K. (with Gleichgewicht, B.) On 3-semigroups and 3-groups polynomial-derived from integral domains. **86i:20094**
 Gleichgewicht, B. See Glazek, K., **86i:20094**
 Gu, Wen Xiang Relations between the M -subgroups of homomorphic fuzzy groups with operators. (Chinese. English summary) **86b:20003**
 Kaarli, K. See Anderson, Tim et al., **86d:16010**
 Krapeš, A. (with Taylor, Mark Adrian) On the Pixider equation. **86e:39010**
 Micala, Biagio Invariant relations of an algebra: characterizations of Ω -groups. (Italian) **86g:08003**
 Neumann, B. H. Commutative quandles. **86k:04002**
 Taylor, Mark Adrian See Krapeš, A., **86e:39010**
 Wiegandt, R. See Anderson, Tim et al., **86d:16010**
 Zhu, Nan De Homomorphisms and isomorphisms of fuzzy groups. (Chinese. English summary) **86b:20004**

20P05 Probability methods in group theory

secondary classifications (20P05)

- Flatto, L. (with Odlyzko, A. M.; Wales, D. B.) Random shuffles and group representations. **86i:60178**
 Odlyzko, A. M. See Flatto, L. et al., **86i:60178**
 Wales, D. B. See Flatto, L. et al., **86i:60178**
 Woess, Wolfgang Cogrowth of groups and simple random walks. **86h:60133**

22-XX TOPOLOGICAL GROUPS, LIE GROUPS (For transformation groups, see 54H15, 57Sxx, 58-XX. For abstract harmonic analysis, see 43-XX.)

22-01 Elementary exposition; textbooks

- Arzac, Gilbert Le groupe de Poincaré et ses représentations. [The Poincaré group and its representations] **86f:22001a**

Le groupe de Poincaré et ses représentations. II. Algèbre de Lie, algèbre enveloppante. [The Poincaré group and its representations. II. Lie algebra, enveloping algebra] **86f:22001b**

- Eliezer, C. J. \star Introduction to selected topics of Lie symmetries. **86i:22001**
 Gong, Sheng \star Dianxing qun shangde tiaohao fenxi. (Chinese) [Harmonic analysis on classical groups] **86j:22001**
 (Hewitt, Edwin) See Naimark, M. A., **86k:22001**
 (Hewitt, Elisabeth) See Naimark, M. A., **86k:22001**
 Naimark, M. A. (with Shtern, A. I.) \star Theory of group representations. **86k:22001**
 Shtern, A. I. See Naimark, M. A., **86k:22001**

secondary classifications (22-01)

- James, I. M. \star General topology and homotopy theory. **86d:55001**
 Michel, Louis Symétrie en physique. [Symmetry in physics] **86k:00017**

22-02 Advanced exposition (research surveys, monographs, etc.)

- Ruppert, Wolfgang \star Compact semitopological semigroups: an intrinsic theory. **86e:22001**

secondary classifications (22-02)

- Helgason, Sigurdur \star Groups and geometric analysis. **86c:22017**

22-03 Historical (must also be assigned at least one classification number from Section 01)

secondary classifications (22-03)

- Hawkins, Thomas Non-Euclidean geometry and Weierstrassian mathematics: the background to Killing's work on Lie algebras. **86c:01025**
 Judd, B. R. Complex atomic spectra. **86f:81171**
 (Lie, Sophus) See Straume, Eldar, **86e:01021**
 Pontryagin, L. S. On my papers in topology and topological algebra. (Russian) **86a:01039**
 Straume, Eldar Sophus Lie—a survey of his life and work. (Norwegian. English summary) **86e:01021**
 Biography:
 Lie, Sophus See Straume, Eldar, **86e:01021**

22-06 Proceedings, conferences, etc.

- (Duflo, Michel) See Harmonic analysis on Lie groups and symmetric spaces. **86f:22003**
 (Eymard, Pierre) See Harmonic analysis on Lie groups and symmetric spaces. **86f:22003**
 (Plato, M.) See Applications of group theory in physics and mathematical physics. **86f:22002**
 (Sally, Paul J., Jr.) See Applications of group theory in physics and mathematical physics. **86f:22002**
 (Schiffmann, Gérard) See Harmonic analysis on Lie groups and symmetric spaces. **86f:22003**
 (Zuckerman, Gregg J.) See Applications of group theory in physics and mathematical physics. **86f:22002**
 Analyse harmonique sur les groupes de Lie et les espaces symétriques \star Analyse harmonique sur les groupes de Lie et les espaces symétriques. (French) [Harmonic analysis on Lie groups and symmetric spaces] **86f:22003**
 Applications of group theory in physics and mathematical physics \star Applications of group theory in physics and mathematical physics. **86f:22002**
 Chicago, Ill. \star Applications of group theory in physics and mathematical physics. **86f:22002**

Colloquium:

- Harmonic analysis on Lie groups and symmetric spaces \star Analyse harmonique sur les groupes de Lie et les espaces symétriques. (French) [Harmonic analysis on Lie groups and symmetric spaces] **86f:22003**
 Harmonic analysis on Lie groups and symmetric spaces \star Analyse harmonique sur les groupes de Lie et les espaces symétriques. (French) [Harmonic analysis on Lie groups and symmetric spaces] **86f:22003**
 Kleeback \star Analyse harmonique sur les groupes de Lie et les espaces symétriques. (French) [Harmonic analysis on Lie groups and symmetric spaces] **86f:22003**

Seminar:

- Applications of group theory in physics and mathematical physics \star Applications of group theory in physics and mathematical physics. **86f:22002**

secondary classifications (22-06)

- (Denardo, G.) See Group theoretical methods in physics. **86b:81002**
 (Ghirardi, G. C.) See Group theoretical methods in physics. **86b:81002**
 (Hotta, R.) See Algebraic groups and related topics. **86e:20049**
 (Kac, Victor G.) See Infinite-dimensional groups with applications. **86i:58004**
 (Okamoto, Kiyosato) See Group representations and systems of differential equations. **86f:58001**
 (Weber, Tullio) See Group theoretical methods in physics. **86b:81002**
 (Zachary, Woodford W.) See Colloquium: Group theoretical methods in physics. **86i:81002**
 Algebraic groups and related topics \star Algebraic groups and related topics. **86e:20049**
 Berkeley, Calif. \star Infinite-dimensional groups with applications. **86i:58004**
 College Park, Md. \star XIIIth international colloquium on group theoretical methods in physics. **86i:81002**
 Colloquium:
 Group theoretical methods in physics \star Group theoretical methods in physics. **86b:81002**

Conference:

Infinite-dimensional groups with applications ★ Infinite-dimensional groups with applications. 86i:58004

Group representations and systems of differential equations ★ Group representations and systems of differential equations. 86f:58001

Group theoretical methods in physics ★ Group theoretical methods in physics. 86b:81002

Infinite-dimensional groups with applications ★ Infinite-dimensional groups with applications. 86i:58004

Kyoto ★ Algebraic groups and related topics. 86e:20049

Nagoya ★ Algebraic groups and related topics. 86e:20049

Symposium:

Algebraic groups and related topics ★ Algebraic groups and related topics. 86e:20049

Group representations and systems of differential equations ★ Group representations and systems of differential equations. 86f:58001

Invariants and geometry ★ Algebraic groups and related topics. 86e:20049

Tokyo ★ Group representations and systems of differential equations. 86f:58001

Trieste ★ Group theoretical methods in physics. 86b:81002

22Axx Topological algebraic systems (For topological rings and fields, see 12Jxx, 13Jxx, 16A80; for dual spaces of operator algebras and topological groups, see 47D35.)

22A05 Structure of general topological groups

Ajtai, M. (with Havas, I.; Komlós, J.) Every group admits a bad topology. 86k:22002

Arnaudov, V. I. (with Marin, E. I.; Mikhalev, A. V.) Necessary conditions for the extension of a group and a field topology to their group algebra. (Russian) 86h:22001

Bagley, R. W. (with Wu, T. S.; Yang, J. S.) On a class of topological groups more general than SIN groups. 86k:22003
(with Yang, J. S.) Locally invariant topological groups and semidirect products. 86f:22004

Clark, Bradd (with Schneider, Victor P.) The extending topologies. 86e:22002

Comfort, W. W. Topological groups. 86g:22001

Dikranjan, Dikran Divisible abelian groups admitting minimal topologies. 86h:22002
Sur la minimalité des produits de groupes topologiques abéliens. (English summary) [Minimality of products of topological abelian groups] 86a:22001
Minimalizable topological groups. 86f:22005

Fay, Temple H. (with Thomas, Barbara V. Smith) Free topological groups are almost never locally invariant. 86h:22003

Havas, I. See Ajtai, M. et al., 86k:22002

Herfort, Wolfgang (with Manevitz, Larry Michael) Topological Frobenius groups. 86m:22001

Houghton, C. H. A fundamental group topology. 86b:22001

Jebeljan, Petru A note on inexhaustible locally convex vector groups. 86i:22002

Kallman, Robert R. Uniqueness results for the $ax + b$ group and related algebraic objects. 86g:22002

Komlós, J. See Ajtai, M. et al., 86k:22002

Koshi, Shoso (with Lai, Han Ch'ing) A metric group based on a measure space. 86m:22002

Lai, Han Ch'ing See Koshi, Shoso, 86m:22002

Lipecti, Z. On continuity of group homomorphisms. 86j:22002

Ma, Ji Liang See Yu, Chun Hai, 86h:22004

Manevitz, Larry Michael See Herfort, Wolfgang, 86m:22001

Marin, E. I. See Arnaudov, V. I. et al., 86h:22001

Mikhalev, A. V. See Arnaudov, V. I. et al., 86h:22001

Morris, Sidney A. Free abelian topological groups. (See 86d:54001)

Nguyễn Việt Dũng The relation between uniform dimensions of a topological group and its factor-group. (Russian) 86b:22002

Pashenichnov, V. I. Intrinsic topologies in I -groups. (Russian) 86k:22004

Schneider, Victor P. See Clark, Bradd, 86e:22002

Thomas, Barbara V. Smith See Fay, Temple H., 86h:22003

Tkachenko, M. G. On topologies of free groups. 86g:22003

Zero-dimensionality of free topological groups. (Russian) 86k:22005

Uspenskii, V. V. Extensions of topological groups with a countable net. (Russian) 86b:22003

Wu, T. S. See Bagley, R. W. et al., 86k:22003

Yang, J. S. See Bagley, R. W., 86f:22004 and 86k:22003

Yu, Chun Hai (with Ma, Ji Liang) Fuzzy topological groups. (Chinese. English summary) 86h:22004

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secondary classifications (22A05)

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22A99 None of the above, but in this section

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22Dxx Locally compact groups and their algebras

22D05 General properties and structure of locally compact groups

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 Topologisch quasinnormale Untergruppen zusammenhängender lokal kompakter Gruppen. (English summary) [Topologically quasinnormal subgroups of connected locally compact groups] **86b:22009**
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 Thoma, E. Characters of infinite groups. **86a:22007**
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- Abela, Herbert Which groups act distally? **86b:54043**
 Faraut, J. (with Picardello, Massimo A.) The Plancherel measure for symmetric graphs. **86i:43012**
 Lee, Jong Plo Orthogonal projections and unitary representations of Lie groups. **86f:22015**
 Mackey, George W. Quantum mechanics from the point of view of the theory of group representations. **86j:81051**
 Picardello, Massimo A. See Faraut, J., **86i:43012**
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 Sunada, Tohru Gelfand's problem on unitary representations associated with discrete subgroups of $PSL_2(\mathbb{R})$. **86e:22018**
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- Misony, Michel Semi-groupes de causalité et formalisme hilbertien de la mécanique quantique. [Causality semigroups and Hilbertian formalism of quantum mechanics] **86b:22012**
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- Giovannini, N. Representation theory in the foundations of classical and quantum physics. **86b:81004**
 Stepin, A. M. Approximability of groups and group actions. (Russian) **86b:46100**

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22D25 C^* -algebras and W^* -algebras arising from group representations [See also 46Lxx]

Boldol, Joachim Group algebras with a unique C^* -norm. 86c:22006

Carey, A. L. (with Moran, William) Characters of nilpotent groups. 86k:22015

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Iossi, Alessandra (with Picardello, Massimo A.) Graphs and convolution operators. 86b:22013

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Pedersen, Niels Vigand Semicharacters on connected Lie groups. 86h:22009

Picardello, Massimo A. See Iossi, Alessandra, 86b:22013

Sutherland, C. E. Cartan subalgebras, transverse measures and non-type-I Plancherel formulae. 86k:22016

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Connes, Alain (with Jones, Vaughan) Property T for von Neumann algebras. 86a:46063

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De Cannière, Jean (with Rousseau, Ronny J. E.) The Fourier algebra as an order ideal of the Fourier-Stieltjes algebra. 86b:43016

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Handelman, David (with Rossmann, W.) Actions of compact groups on AF C^* -algebras. 86f:46071

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Leptin, Horst A new kind of eigenfunction expansions on groups. 86a:43011

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Nessonov, N. I. See Gelfer, S. L. et al., 86i:46068

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Quigg, John C. Approximately periodic functionals on C^* -algebras and von Neumann algebras. 86k:46068

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Sauvageot, Jean-Luc Implémentation canonique pour les co-actions d'un groupe localement compact et les systèmes dynamiques généralisés. [Canonical implementation for coactions of a locally compact group and generalized dynamical systems] 86k:46097

Valette, Alain K -theory for the reduced C^* -algebra of a semisimple Lie group with real rank 1 and finite centre. 86j:58145

Vallin, Jean-Michel C^* -algèbres de Hopf et C^* -algèbres de Kac. [Hopf C^* -algebras and Kac C^* -algebras] 86f:46072

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Goldin, Gerald A. Representation of semidirect products of diffeomorphism groups in quantum theory. 86m:22004

Rousseau, Ronny J. E. Quasi-invariance and induced representations. 86i:22008

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Baggett, Larry Unimodularity and atomic Plancherel measure. 86a:22004

Brenken, Berndt A. Representations and automorphisms of the irrational rotation algebra. 86a:46089

Hannabuss, K. C. Holomorphic and abstract inducing. 86b:22011

22D35 Duality theorems

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Bürger, Reinhard Contributions to duality theory on groups and hypergroups. 86a:43005

22D40 Ergodic theory on groups [See also 28Dxx and 43A60.]

Baggett, Larry (with Mitchell, Wesley E.; Ramsay, Arlan) Representations of the discrete Heisenberg group and cocycles of an irrational rotation. 86k:22017

Berend, Daniel Multi-invariant sets on compact abelian groups. 86c:22009

Ergodic semigroups of epimorphisms. 86j:22007

Dateyama, Masahito (with Kasuga, Tatsuro) Ergodic affine maps of locally compact groups. 86m:22005

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Lesigne, Emmanuel Résolution d'une équation fonctionnelle. (English summary) [Solution of a functional equation] 86k:22018

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Ramsay, Arlan See Baggett, Larry et al., 86k:22017

Zimmer, R. J. Kazhdan groups acting on compact manifolds. 86a:22009

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Baggett, Larry Measures invariant under a linear group. 86i:28027

Chernov, N. I. Entropy of infinite-dimensional systems of statistical mechanics with respect to a group of space-time shifts. (Russian) 86c:82002

Conse, Jean-Pierre (with Lesigne, Emmanuel) Théorèmes ergodiques pour des mesures diagonales. (English summary) [Ergodic theorems for diagonal measures] 86i:28019

Dani, S. G. A note on invariant finitely additive measures. 86f:28016

Feldman, Jacob (with Ramsay, Arlan) Countable sections for free actions of groups. 86h:28011

Ganikhodjaev, N. N. Bernoulli actions of nonamenable groups. (Russian) 86c:28039

Julg, Pierre (with Valette, Alain) K -moyennabilité pour les groupes opérant sur les arbres. (English summary) [K -amenability for groups acting on trees] 86m:46063

(with Valette, Alain) Group actions on trees and K -amenability. 86m:46064

Kerov, S. V. (with Vershik, A. M.) Characters, factor representations and K -functor of the infinite symmetric group. 86a:22006

Lesigne, Emmanuel See Conse, Jean-Pierre, 86i:28019

Ramsay, Arlan See Feldman, Jacob, 86h:28011

Surshko, S. V. Controllable dynamical systems. (Russian) 86f:93041

Tempelman, A. A. Ergodic and mixing homogeneous spaces. (Russian) 86b:28020

Valette, Alain See Julg, Pierre, 86m:46063 and 86m:46064

Vershik, A. M. See Kerov, S. V., 86a:22006

Weit, Yitzhak On spectral synthesis and ergodicity in spaces of vector-valued functions. 86b:43017

Westman, Joel J. Recurrence time and range for a generalized random walk. 86f:60016

Witte, David Rigidity of some translations on homogeneous spaces. 86b:58072

Zimmer, R. J. Ergodic theory, group representations, and rigidity. 86m:22014

\star Ergodic theory and semisimple groups. 86j:22014

Lattices in semisimple groups and distal geometric structures. 86i:57056

22D99 None of the above, but in this section

Guichardet, A. \star Когомология топологических групп и алгебр Ли. (Russian) [Cohomology of topological groups and Lie algebras] 86j:22008

(Kirillov, A. A.) See Guichardet, A., 86j:22008

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Walter, Martin E. The Lévy-Khinchin formula and order structure. 86c:22008

secondary classifications (22D99)

Duponcheel, Luc Non-Archimedean (uniformly) continuous measures on homogeneous spaces. 86f:28024

Pytlík, Tadeusz Radial convolutors on free groups. 86j:43001

22Exx Lie groups {For the topology of Lie groups and homogeneous spaces, see 57Sxx, 57Txx; for analysis thereon, see 43A80, 43A85, 43A90.}

22E05 Local Lie groups [See also 34-XX, 35-XX, 58H05.]

Hofmann, Karl H. (with Lawson, Jimmie D.) On Sophus Lie's fundamental theorems. I. 86a:22010

Lawson, Jimmie D. See Hofmann, Karl H., 86a:22010

Popov, M. D. Automated calculation of the defining equations of a Lie group. (Russian. English summary) 86m:22006

secondary classifications (22E05)

Hlavatý, L. (with Steinberg, Stanley; Wolf, Kurt Bernardo) Riccati equations and Lie series. 86i:93026

Hofmann, Karl H. (with Lawson, Jimmie D.) On Sophus Lie's fundamental theorems. II. 86j:22030

Lawson, Jimmie D. See Hofmann, Karl H., 86j:22030

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22E10 General properties and structure of complex Lie groups

[See also 32M05.]

- Chu, Hsin On the exponential map of Borel subgroups in a semisimple Lie group with applications to differential equations. (See 86i:81002)
- Djoković, Dragomir Z. On conjugacy classes of elements of finite order in complex semisimple Lie groups. 86h:22010
- Ishihara, Tetsuo See Yokota, Ichiro et al., 86a:22011
- Lee, Dong Hoon On representations of the holomorph of analytic groups. 86m:22007
- Yasukura, Osami See Yokota, Ichiro et al., 86a:22011
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- Marcus, Marvin An exponential group. 86f:22008
- Moody, R. V. (with Patera, J.) Elements of finite order in simple Lie groups and their applications. (See 86i:81002)
- Moskalenko, Yu. D. See Barannik, A. F. et al., 86i:22010
- Nishikawa, Mitsuru Exponential image and conjugacy classes in the group $O(3, 2)$. 86f:22009
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- Chu, Hsin On the exponential map of Borel subgroups in a semisimple Lie group. 86e:22026
- D'Andrea, Antonina Families of three-parameter measurable surfaces whose maximal invariance group in the projective space P_3 is the triangular group or one of its subgroups. (Italian) 86i:53009
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- Zhong, Zai Zhe On the hyperbolic complex linear symmetry groups and their local gauge transformation actions. 86h:83055

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- Howe, Roger (with Ratcliff, Gail; Wildberger, Norman) Symbol mappings for certain nilpotent groups. 86a:22014
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- Poguntke, Detlev Über das Synthese-Problem für nilpotente Liesche Gruppen. [On the synthesis problem for nilpotent Lie groups] 86e:22009
- Ratcliff, Gail See Howe, Roger et al., 86a:22014
- Schempp, Walter Radar ambiguity functions, nilpotent harmonic analysis, and holomorphic theta series. 86k:22021
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- Igodi, Paul Generalizing a realization result of B. Zimmermann and K. B. Lee to infranilmanifolds. 86g:57032
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- Juhl, A. Orbit method for nilpotent Lie groups and distribution of eigenvalues. 86m:58143
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- Lévy-Bruhl, Pierre Conditions suffisantes de résolubilité locale d'opérateurs invariants à gauche sur des groupes nilpotents. [Sufficient conditions of local solvability for left invariant operators on nilpotent groups] 86g:58123
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- Benoit, Yves Multiplicité un pour les espaces symétriques exponentiels. (English summary) [Multiplicity one for exponential symmetric spaces] 86j:22010
- Corwin, Lawrence Matrix coefficients of nilpotent Lie groups. 86e:22010
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- Fox, Jeffrey S. On the spectra of compact nilmanifolds. 86k:22022
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- Głowacki, Paweł Stable semigroups of measures on the Heisenberg group. 86g:43003
- Nourrigat, Jean Approximation of systems of pseudodifferential operators. 86h:35031
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- Aomoto, Kasuhiko A formula of eigenfunction expansions. I. Case of asymptotic trees. 86m:22009
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- Benoist, Yves Analyse harmonique sur les espaces symétriques nilpotents. (English summary) [Harmonic analysis on nilpotent symmetric spaces] 86i:22014
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- Clerc, Jean-Louis Orbits dans le plan tangent d'un espace symétrique, mesures orbitales et leurs transformées de Fourier. [Orbits in the tangent plane of a symmetric space, orbital measures and their Fourier transforms] 86e:22013
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- Felix, Rainer Solvability of differential equations with linear coefficients of nilpotent type. **86k:22024**
- Flensted-Jensen, Mogens Harmonic analysis on semisimple symmetric spaces. A method of duality. **86h:22013**
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- Roğu, R. See Gelfand, I. M. et al., **86c:22016**
- Rothschild, Linda Freiss Analyticity of solutions of partial differential equations on nilpotent Lie groups. **86c:22017**
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- Speh, Birgit A note on invariant forms on locally symmetric spaces. **86h:22016**
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- Cahen, M. (with Gutt, S.) Non localité d'une déformation symplectique sur la sphère S^2 . [Nonlocality of a symplectic deformation on the sphere S^2] **86c:58032**
- Carton-Lebrun, C. Smoothness properties of certain integrals and the range of the Radon transform. **86h:44003**
- Chatterjee, S. K. Classical and group-theoretic analysis of some problems of special functions. (Not in MR)
- Chen, Guang Xiao (with He, Zu Qi) On Abel summability of Fourier series on unitary symplectic groups. (Chinese) **86h:43010**
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- van den Dries, R. J. C. H. Spherical functions on compact symmetric spaces. I. **86h:43011**
- DuBo, Michel On the Plancherel formula for almost algebraic real Lie groups. **86c:22019**
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- El-Jaouhari, Noureddine Théorème de Fatou pour les fonctions propres des opérateurs différentiels invariants par un groupe de déplacements de Cartan. (English summary) [Fatou theorem for the eigenfunctions of invariant differential operators by a group of Cartan displacements] **86a:43014**
- Fegan, H. D. Differential equations on Lie groups and tori, the wave equations and Huygens' principle. **86j:58146**
- Figa-Talamanca, Alessandro Harmonic analysis on discrete structures. (Italian) **86c:43001**
- Frick, R. A. On a Heisenberg picture and Fourier transform on the Lorentz group. **86h:81063**
- Gaudry, G. I. See Dooley, A. H., **86a:43002**
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- Giulini, Saverio Cohen type inequalities and divergence of Fourier series on compact Lie groups. (Italian summary) **86a:43010**
- Gong, Sheng ★ Dianxing qun shangde tiaohé fenxi. (Chinese) [Harmonic analysis on classical groups] **86j:22001**
- Guivarc'h, Y. Sur la représentation intégrale des fonctions harmoniques et des fonctions propres positives dans un espace riemannien symétrique. (English summary) [Integral representation of positive eigenfunctions and harmonic functions in a Riemannian symmetric space] **86i:31011**
(with Raugi, A.) Frontière de Furstenberg, propriétés de contraction et théorèmes de convergence. [The Furstenberg boundary, contraction properties and convergence theorems] **86h:60126**
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- Janas, Jan Note on a theorem of Dieudonné. **86d:43003**
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- Kupka, Ivan A. K. On finite Volterra series and a theorem of P. Crouch. **86d:93031**
- Lemarie, Pierre Gilles ★ Algèbres d'opérateurs et semi-groupes de Poisson sur un espace de nature homogène. (French) [Operator algebras and Poisson semigroups on a space of homogeneous type] **86g:42030**
- Lévy-Bruhl, Pierre Conditions suffisantes de résolubilité locale d'opérateurs invariants à gauche sur des groupes nilpotents. [Sufficient conditions of local solvability for left invariant operators on nilpotent groups] **86g:58123**
- Lion, Gérard Résolubilité d'opérateurs différentiels semi-invariants sur l'espace d'une représentation induite. (English summary) [Solvability of semi-invariant differential operators on the fiber bundle of an induced representation] **86f:58164**
- Lipman, Ronald L. An orbital perspective on square-integrable representations. **86k:22032**
- Meaney, Christopher Spherical functions and spectral synthesis. **86k:43005**
- Meladse, G. A. (with Shubin, M. A.) Algebras of pseudodifferential operators on unimodular Lie groups. (Russian) **86f:58153**
The Fredholm property and invertibility of differential operators on unimodular Lie groups. (Russian. English and Georgian summaries) **86m:58151**
- Melin, Anders Parametrix constructions for right invariant differential operators on nilpotent groups. **86f:58154**
- Milne, S. C. See Gustafson, R. A., **86k:33007**
- Molchanov, V. F. Plancherel's formula for pseudo-Riemannian symmetric spaces of the universal covering group of $SL(2, \mathbb{R})$. (Russian) **86a:22032**
- Moscovici, Henri Lefschetz formulae for Hecke operators. **86j:58143**
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- Rains, Michael See Nielsen, Ole A., **86j:22011**
- Raugi, A. See Guivarc'h, Y., **86i:31011**
- Rno, Jung Sik Harmonic analysis on the Euclidean group in three-space. **86i:43015**
- Rossmann, W. Characters as contour integrals. **86c:22024**
- Rothschild, Linda Preiss See Corwin, Lawrence et al., **86k:58137**
- Schempp, Walter Radar reception and nilpotent harmonic analysis. V. **86j:78014**
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- Schlichtkrull, Henrik On the boundary behaviour of generalized Poisson integrals on symmetric spaces. **86k:43007**
- Shubin, M. A. See Meladse, G. A., **86f:58153**
- Sjögren, Peter A Fatou theorem for eigenfunctions of the Laplace-Beltrami operator in a symmetric space. **86h:58122**
- Stanke, Ronald J. Analytic uniformly bounded representations of $SU(1, n+1)$. **86j:22023**
- Stein, Elias M. Some oscillatory integrals and their applications. (See **86j:00010**)
- Stempak, Kraystov Multipliers for eigenfunction expansions of some Schrödinger operators. **86i:43016**
- Strichartz, Robert S. L^p estimates for Radon transforms in Euclidean and non-Euclidean spaces. **86k:43008**

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Morita, Yasuo Analytic representations of SL_2 over a p -adic number field. II. 86j:22027

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Vinberg, E. B. Absence of crystallographic groups of reflections in Lobachevskii spaces of large dimension. (Russian) 86k:22020

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- Nakajima, Haruhisa Invariants of reductive Lie groups of rank one and their applications. **86c:22027**
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- Jantsen, Jens Carsten ★ Einhüllende Algebren halbeinfacher Lie-Algebren. (German) [Enveloping algebras of semisimple Lie algebras] **86c:17011**
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- Tanisaki, T. See Kashiwara, Masaki, **86m:17015**

22E50 Representations of Lie and linear algebraic groups over local fields

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- Carayol, H. Représentations cuspidales du groupe linéaire. [Cuspidal representations of the linear group] 86f:22019
- (Deligne, P.) See Bernstein, Joseph N., 86c:22028
- Figà-Talamanca, Alessandro (with Picardello, Massimo A.) Restriction of spherical representations of $PGL_2(\mathbb{Q}_p)$ to a discrete subgroup. 86b:22029
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- Hijikata, Hiroaki Some supercuspidal representations induced from parahoric subgroups. 86f:22021
- Julg, Pierre (with Valette, Alain) K -theoretic amenability for $SL_2(\mathbb{Q}_p)$, and the action on the associated tree. 86b:22030
- Langlands, R. P. Orbital integrals on forms of $SL(3)$. I. 86d:22012
- Morita, Yasuo Analytic representations of SL_2 over a p -adic number field. II. 86j:22027
- Moy, Allen (with Sally, Paul J., Jr.) Supercuspidal representations of SL_n over a p -adic field: the tame case. 86c:22029
- Pantoja, José E. Liftings of supercuspidal representations of GL_2 . 86d:22013
- Picardello, Massimo A. See Figà-Talamanca, Alessandro, 86b:22029
- Robert, Alain Représentations p -adiques irréductibles de sous-groupes ouverts de $SL_2(\mathbb{Z}_p)$. (English summary) [Irreducible p -adic representations of open subgroups of $SL_2(\mathbb{Z}_p)$] 86c:22029
- Rogawski, J. D. On modules over the Hecke algebra of a p -adic group. 86j:22028
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- Barbasch, Dan (with Vogan, David A., Jr.) Unipotent representations of complex semisimple groups. 86i:22031
- Deligne, P. Les corps locaux de caractéristique p , limites de corps locaux de caractéristique 0. [Local fields of characteristic p which are limits of local fields of characteristic 0] 86g:11068
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- Heifetz, D. B. p -adic oscillatory integrals and wave front sets. 86h:22017
- Howe, Roger On a notion of rank for unitary representations of the classical groups. 86j:22016
- Kazhdan, David See Deligne, P. et al., 86h:11044
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- Kazhdan, David On lifting. 86h:22029
- Kudla, Stephen S. Sessaw dual reductive pairs. 86b:22032
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- Drinfel'd, V. G. Two-dimensional l -adic representations of the Galois group of a global field of characteristic p and automorphic forms on $GL(2)$. (Russian. English summary) 86i:11066
- Flicker, Yuva. Z. On twisted lifting. 86j:11056
- Cekeler, Ernst-Ulrich Le genre des courbes modulaires de Drinfeld. (English summary) [The genus of Drinfel'd modular curves] 86i:11025
- Henniart, Guy La conjecture de Langlands locale pour $GL(3)$. (English summary) [The local Langlands conjecture for $GL(3)$] 86g:11070
- Jacquet, Hervé (with Lai, King F.) Sur une formule des traces relative. (English summary) [On a relative trace formula] 86k:11029
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- Patterson, S. J. Whittaker models of generalized theta series. 86f:11044
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- Rallis, S. Injectivity properties of liftings associated to Weil representations. 86d:11038
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- Barannik, L. F. See Fushchich, V. I. et al., 86k:22041
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- Fushchich, V. I. (with Barannik, A. F.; Barannik, L. F.) Continuous subgroups of the generalized Galilei group. I. (Russian) 86k:22041
- Hofmann, Karl H. (with Lawson, Jimmie D.) On Sophus Lie's fundamental theorems. II. 86j:22030
- Johnson, Joseph E. Markov-type Lie groups in $GL(n, \mathbb{R})$. 86h:22030
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- Manturov, O. V. Algebras with an irreducible group of automorphisms. (Russian) 86k:22042
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- Silva Leite, M. F. The use of permutation matrices in the generation of the rotation group. 86k:22043

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- Kac, Victor G. (with Peterson, Dale H.) Regular functions on certain infinite-dimensional groups. 86b:17010
- Kaneta, Hitoshi The invariant polynomial algebras for the groups $IU(n)$ and $ISO(n)$. 86f:17012a
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- Goodman, Roe (with Wallach, Nolan R.) Structure and unitary cocycle representations of loop groups and the group of diffeomorphisms of the circle. 86g:22024a
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- Lukierski, Jerzy (with Nowicki, Anatol) Quaternionic supergroups and $D = 4$ Euclidean supersymmetries. (See 86i:81138)
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- Schmidt, B. G. The Geroch group is a Banach Lie group. (See 86j:83017)
- Schücker, T. See Langouche, F., 86i:22033
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- Belavin, A. A. (with Polyakov, A. M.; Zamolodchikov, Aleksandr B.) Infinite conformal symmetry of critical fluctuations in two dimensions. **86c:82019**
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- Chau, Ling Lie (with Lukierski, Jerzy; Popowicz, Ziemowit) Supersymmetric Kac-Moody algebra in graded-chiral models. **86g:81089**
- Cielieak, Waldemar (with Kieres, Andrzej) On a complemented group of the isotropy group. (Russian and Polish summaries) **86b:58008**
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- Duncan, T. E. Stochastic system theory and affine Lie algebras. **86a:93101**
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- Geldin, Gerald A. Representation of semidirect products of diffeomorphism groups in quantum theory. **86m:22004**
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- Güler, Y. Multiplicity-free, unitary and nonunitary irreducible representations of $SL(3, \mathbb{R})$. **86g:22026b**
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- All linear representations of the Poincaré group up to dimension 8. **86a:22041**
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- (with Sotkov, G. M.) Errata: "The six-point families of exceptional representations of the conformal group". **86f:22027b**
- Pluhar, Z. (with Smirnov, Yu. F.; Tolstol, V. N.) Simple construction of SU(3) representations using the SU(2) projection technique. **86k:22048**
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- Sorogovets, I. B. Matrix polynomials connected with representations of the group $SO(n)$. (Russian. English summary) **86d:22015**
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26-XX REAL FUNCTIONS [See also 54C30.]

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26-01 Elementary exposition; textbooks

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- (with Brehmer, S.) ★ Lebesguesche Integrale. (German) [Lebesgue integrals] 86c:26001b
- Brehmer, S. See Belkner, H., 86c:26001a and 86c:26001b
- (Fernández, V.) See Kudryavtsev, L. D., 86c:26002a
- González-Velasco, Enrique A. The product rule for Fréchet derivatives. (Not in MR)
- (Gutiérrez González, Ma. Cristina) See Bartle, Robert G., 86c:26001
- Jeffery, R. L. ★ The theory of functions of a real variable. 86g:26001
- Kudryavtsev, L. D. ★ Curso de análisis matemático. 1. (Spanish) [A course in mathematical analysis. 1] 86c:26002a
- ★ Curso de análisis matemático. 2. (Spanish) [A course in mathematical analysis. 2] 86c:26002b
- Malik, S. C. ★ Mathematical analysis. 86f:26001
- (Medkov, K. P.) See Kudryavtsev, L. D., 86c:26002b
- Price, G. Baley ★ Multivariable analysis. 86k:26001
- Saxena, Subhash C. (with Shah, Swarupchand M.) ★ Introduction to real variable theory. 86c:26002
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- Unger, Peter [Review of three calculus textbooks]. (Not in MR)

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- Folland, Gerald B. ★ Real analysis. 86k:28001
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- Krysicki, Włodzisław (with Włodarski, Lech) ★ Analiza matematyczna w zadaniach. Część II. (Polish) [Mathematical analysis in problems. Part II] 86e:00007
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- Pothoven, K. See Mukherjee, A., 86j:28001
- Rozhdestvenskiĭ, B. L. See Kartashev, A. P., 86e:00003
- Strubecker, Karl ★ Einführung in die höhere Mathematik mit besonderer Berücksichtigung ihrer Anwendungen auf Geometrie, Physik, Naturwissenschaften und Technik. Band IV. (German) [Introduction to higher mathematics with special reference to its applications in geometry, physics, the natural sciences and engineering. Vol. IV] 86k:00004
- (Volosov, V. M.) See Nikol'skiĭ, S. M., 86k:00002a and 86k:00002b
- Włodarski, Lech See Krysicki, Włodzisław, 86e:00007
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26-03 Historical (must also be assigned at least one classification number from Section 01)

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26Axx Functions of one variable

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 Thompson, H. B. Taylor's theorem with the integral remainder under very weak differentiability assumptions. 86f:26002

26A09 Elementary functions

- Pertelová, Mária The structure of the range of periodic functions. (Russian and Slovak summaries) 86b:26002
 secondary classifications (26A09)
 Borwein, J. M. (with Borwein, Peter B.) The arithmetic-geometric mean and fast computation of elementary functions. 86d:65029
 Borwein, Peter B. See Borwein, J. M., 86d:65029

26A12 Rate of growth of functions, orders of infinity, slowly increasing functions [See also 26A48.]

- Aljančić, S. Transformations of O -regularly varying functions by regular operators. 86a:26001
 ter Morache, H. G. (with Veltkamp, G. W.) A discrete Landau problem. 86c:26004
 Veltkamp, G. W. See ter Morache, H. G., 86c:26004
 secondary classifications (26A12)
 Boberntz, Michael "Orders of infinity" generated by difference equations. 86f:12002a
 Discrete "orders of infinity". 86f:12002b
 Bowman, K. O. (with Lam, H. K.; Shenton, L. R.) Bounds for the expectation of the k th root of a random variable. 86c:65156a
 (with Lam, H. K.; Shenton, L. R.) Bounds for certain integrals. 86c:65156b
 van den Dries, Lou (with Levitz, Hilbert) On Skolem's exponential functions below 2^{2^x} . 86g:03068
 Geluk, J. L. Abelian and Tauberian theorems for O -regularly varying functions. 86d:44001
 Lam, H. K. See Bowman, K. O. et al., 86c:65156a and 86c:65156b
 Levitz, Hilbert See van den Dries, Lou, 86g:03068
 Ostrogorski, Tatjana Asymptotic behaviour of Fourier transforms in \mathbb{R}^n . 86g:42023
 Abelian type theorems for some integral operators in \mathbb{R}^n . 86i:44001
 Seneta, E. ★ Правильно меняющиеся функции. (Russian) [Regularly varying functions] 86m:26001
 Shenton, L. R. See Bowman, K. O. et al., 86c:65156a and 86c:65156b
 (Shiganov, I. S.) See Seneta, E., 86m:26001
 Seekers, G. Scales of infinity and Abel's functional equation. 86h:39010
 (Zolotarev, V. M.) See Seneta, E., 86m:26001

26A15 Continuity and related questions (modulus of continuity, semicontinuity, discontinuities, etc.) [For properties determined by Fourier coefficients, see 42A16; for those determined by approximation properties, see 41A25.]

- Belov, A. S. A property of a sequence of moduli of continuity of a given function. (Russian) 86a:26002
 Bruckner, A. M. (with Haussermann, J.) Strong porosity features of typical continuous functions. 86j:26001
 Drobot, Vladimir (with Morayne, M.) Continuous functions with a dense set of proper local maxima. 86c:26003
 Gibson, Richard G. Concerning extendable connectivity functions.
 Haussermann, J. Porosity characteristics of intersection sets with the typical continuous function. 86c:26005
 See also Bruckner, A. M., 86j:26001
 Humke, Paul D. (with Laczkovich, Miklós) Typical continuous functions are virtually nonmonotone. 86g:26002
 Hwang, Jun Shung A problem on continuous and periodic functions. 86d:26002
 Jia, Xing De (with Zhou, Jia Yun) On the set of points of discontinuity of a real-valued function on the line. (Chinese. English summary) (Not in MR)
 Kostyrko, Pavel (with Salát, Tibor) On the structure of some function space. 86j:26002
 Laczkovich, Miklós See Humke, Paul D., 86g:26002
 Morayne, M. See Drobot, Vladimir, 86c:26003
 Nishihara, Togo Remarks on Agronsky's theorem on strong containment and continuity roads. 86b:26003
 Ostaszewski, Krzysztof Density topology and the Luzin (N) condition. 86b:26004
 Östir, E. On almost-continuity and almost- A continuity of real functions. (Turkish summary) 86h:26003
 Rus, Ioan A. Separation theorems for the zeros of some real functions. (Not in MR)
 Salát, Tibor See Kostyrko, Pavel, 86j:26002
 Totik, V. On a problem concerning L^p moduli of smoothness. 86h:26004
 Vetro, Pasquale Ordinarily approximately continuous selections. 86d:26003
 Wilczyński, W. A category analogue of the density topology, approximate continuity and the approximate derivative. 86i:26002
 Wilkins, Jr. A modulus of continuity for a class of quasismooth functions. 86d:26004
 Wójcicki, Zygmunt The typical structure of the sets $\{x: f(x) = h(x)\}$ for f continuous and h Lipschitz. 86c:26004
 Zhou, Jia Yun See Jia, Xing De (Not in MR)

secondary classifications (26A15)

- De Franchis, Michele Asymptotic and ordinary differentiability for uniformly continuous functions of real variables. (Italian) 86f:26004
 Gamkrelidze, N. G. The modulus of continuity of the Weierstrass function. (Russian) 86a:26009
 Kominek, Z. On a decomposition of the space of real numbers. (Serbo-Croatian summary) 86f:26002
 Yang, Run Sheng A counterexample in continuous self-maps of an interval. (Chinese) 86j:58132

26A16 Lipschitz (Hölder) classes

- Laczkovich, Miklós (with Preiss, David) α -variation and transformation into C^n functions. (See 86d:00017)
 Pleschinskii, N. B. Construction of functions satisfying a Hölder condition with a given exponent. (Russian) 86d:26005
 Preiss, David See Laczkovich, Miklós, (86d:00017)

secondary classifications (26A16)

- Brudnyi, Yu. A. (with Shvartman, P. A.) A linear extension operator for a space of smooth functions defined on a closed subset in \mathbb{R}^n . (Russian) **86f:46031**
- Ditalan, Z. On Lipschitz classes and derivative inequalities in various Banach spaces. **86e:41018**
- Laczkovich, Miklós (with Preiss, David) α -variation and transformation into C^n functions. **86g:26010**
- Preiss, David See Laczkovich, Miklós, **86g:26010**
- Rihaoui, I. Approximation par des fonctions lipschitziennes et critère de convergence étroite d'une suite de probabilités. (English summary) [Approximation by Lipschitz functions and a weak convergence criterion for a probability sequence] **86c:54014**
- Shvartman, P. A. See Brudnyi, Yu. A., **86f:46031**
- Zhivkov, N. V. Generic Gateaux differentiability of locally Lipschitzian functions. **86a:46046**
- Ziemian, Bogdan A Taylor type decomposition for distributions in one dimension. (Russian summary) **86i:46045a**
- An analysis of microlocal singularities of functions and distributions on the real line. (Russian summary) **86i:46045b**
- The derivative of a measurable function and of a distribution at a point and its basic properties. (Russian summary) **86i:46045c**

26A18 Iteration [See also 39B10, 47H10, 54H25, 58F08.]

- Baker, John A. A note on iteration groups. **86g:26003**
- Schweizer, B. (with Sklar, A.) Continuous functions that conjugate trapezoid functions. **86i:26003**
- Sklar, A. See Schweizer, B., **86i:26003**
- Targónski, György ★ New directions and open problems in iteration theory. **86i:26004**
- Wallen, Lawrence J. Modified iteration and probability. **86j:26003**

secondary classifications (26A18)

- Boyaraky, Abraham See Friedman, Nathan, **86k:28017**
- Branner, Bodil Iterations by odd functions with two extrema. **86d:58079**
- Fehér, János Bemerkungen über Iterierten von Polynomen. [Comments on iterates of polynomials] **86d:30038**
- Friedman, Nathan (with Boyaraky, Abraham) Entropy versus speed in ergodic Markov maps. **86k:28017**
- Robert, F. Analogies entre itérations continues et itérations discrètes. [Analogies between continuous iterations and discrete iterations] **86m:58098**
- Weißkämper, Jürgen Embeddings in iteration groups and semigroups with nontrivial units. **86h:58081**
- Yuan, Xiao Feng ★ Chaotic behavior of continuous self-mappings of the closed interval. **86b:58087**
- Zdun, Marek Cesary Iteration semigroups with restricted domain. **86m:39016**

26A21 Classification of real functions; Baire classification of sets and functions [See also 04A15, 28A05, 54C50.]

- Aversa, V. See Wilczyński, W., **86h:26005**
- Ceder, Jack (with Pearson, T. L.) A survey of Darboux Baire 1 functions. **86a:26003**
- Humke, Paul D. (with Thomson, B. S.) A porosity characterization of symmetric perfect sets. **86m:26004**
- Kovács, Katalin The characterization of complex-valued additive functions. **86f:26003**
- Muntean, Ioan Sur la classification de certains ensembles de fonctions réelles sur un intervalle compact. [Classifying some sets of real functions on a compact interval] **86g:26004**
- Pearson, T. L. See Ceder, Jack, **86a:26003**
- Rinne, Dan On typical bounded functions in the Zahorski classes. **86d:26006**
- On typical bounded functions in the Zahorski classes. II. **86j:26004**
- Thomson, B. S. See Humke, Paul D., **86m:26004**
- Wilczyński, W. (with Aversa, V.) Some remarks on \mathcal{J} -approximately continuous functions. **86h:26005**

secondary classifications (26A21)

- Kotsé, Wesley Functions of class one and well-behaved spaces. **86j:54030**
- Salát, Tibor On exponents of convergence of subsequences. **86b:40002**

26A24 Differentiation (functions of one variable): general theory, generalized derivatives, mean-value theorems [See also 28A15.]

- Ash, J. Marshall Very generalized Riemann derivatives, generalized Riemann derivatives and associated summability methods.
- Bhakta, P. C. (with Mukhopadhyay, D. K.) On approximate strong and approximate uniform Schwarz differentiability. **86g:26005**
- Boyaraky, Abraham Dynamical properties of maps derived from maps with strong negative Schwarzian derivative. **86b:26005**
- Bruckner, A. M. (with Thomson, B. S.) Porosity estimates for the Dini derivatives. **86b:26006**
- (with Johnson, K. G.) Path derivatives and growth control. **86d:26008**
- (with O'Malley, Richard J.; Thomson, B. S.) Path derivatives: a unified view of certain generalized derivatives. **86d:26007**
- Cater, F. S. Two large subsets of a functional space. **86d:26009**
- Cross, G. E. On functions with nonnegative divided differences. **86a:26005**
- De Franchis, Michele Asymptotic and ordinary differentiability for uniformly continuous functions of real variables. (Italian) **86f:26004**
- Evans, Michael Jon Approximate smoothness of continuous functions. (See **86d:00017**)
- Peano differentiation and high order smoothness in L_p . **86k:26002**
- Garg, K. M. Derivatives of variation functions and of mutually singular and relatively absolutely continuous functions. (See **86d:00017**)
- Johnson, K. G. See Bruckner, A. M., **86d:26008**

Laczkovich, Miklós Differentiable restrictions of continuous functions. **86d:26010**

- (with Preiss, David; Weil, Clifford) Infinite Peano derivatives.
- Lasarow, Ewa Selective differentiation of typical continuous functions. **86d:26011**
- Liu, Wen A problem on almost everywhere differentiable functions. (Chinese) **86a:26004**
- Mišk, L. On extreme strong derivatives of a function of an interval. **86h:26006**
- Mukhopadhyay, D. K. See Bhakta, P. C., **86g:26005**
- Muntean, Ioan Sur le quotient de dérivées approximatives. [On the quotient of approximative derivatives] **86a:26005**
- Fixed point theorems for Darboux functions. (See **86e:00013**)
- Remarque sur le quotient de dérivées approximatives. [Remark on the quotient of approximate derivatives] **86i:26005**
- O'Malley, Richard J. The second Peano derivative as a composite derivative. (See **86d:00017**)

See also Bruckner, A. M. et al., **86d:26007**

- Preiss, David See Laczkovich, Miklós et al. (Not in MR)
- Pu, H. H. See Pu, H. W., **86a:26006**
- Pu, H. W. (with Pu, H. H.) The derivative of a nondecreasing saltus function. **86a:26006**
- Rădulescu, Marius (with Rădulescu, Sorin) A new proof of Fleisner's theorem on products of derivatives. **86i:26006**
- Rădulescu, Sorin See Rădulescu, Marius, **86i:26006**
- Rotaru, Paul A new derivative. (Romanian summary) **86a:26007**
- Russo, Giuseppe Continuous functions equipped with symmetric mean derivatives. (Italian) **86a:26008**
- Sverák, Vladimír Two examples concerning derivatives and M_3 -sets. **86f:26005**
- Taylor, Kevin B. Darboux-like properties of generalized derivatives. **86c:26006**
- Thomson, B. S. See Bruckner, A. M., **86b:26006** and **86d:26007**
- Todorov, Pavel G. Direct proof of a new explicit formula for the n th derivative of an inverse function. (Russian. English and Bulgarian summaries) (Not in MR)
- Weil, Clifford The Peano derivative: what's known and what isn't. **86c:26007**
- See also Laczkovich, Miklós et al. (Not in MR)
- Xie, Ting Fan On the smoothness of functions. (Chinese) **86k:26003**
- Zhou, Hui Shan The relation between higher differences and higher derivatives. (Chinese) (Not in MR)

secondary classifications (26A24)

- Acsé, J. A mean value property of the derivative of quadratic polynomials—without mean values and derivatives. **86c:39012**
- Averbukh, V. I. The Asplund-Rockafellar-Gregory theorem and pseudotopologies. (See **86f:54003**)
- Aversa, V. See Wilczyński, W., **86h:26005**
- Cretel, B. (with Neagu, M.) About some functional definitions of the means. **86j:39006**
- Daróczy, Z. (with Páles, Zolt) Multiplicative mean values and entropies. **86c:39008**
- Kostyrko, Pavel (with Salát, Tibor) On the structure of some function space. **86j:26002**
- Kushner, B. A. Differentiability and uniform continuity of constructive functions. (Russian) **86g:03104**
- Miller, John Boris The Euler-Maclaurin sum formula for a closed derivation. **86d:47043**
- Mišk, L. On continuous interval functions. (Russian summary) **86b:55040**
- Morayne, M. On continuity of symmetric restrictions of Borel functions. **86b:26024**
- Neagu, M. See Cretel, B., **86j:39006**
- Owa, Shigeo On a new subclass of analytic p -valent functions. **86i:30013**
- Páles, Zolt See Daróczy, Z., **86c:39008**
- Salát, Tibor See Kostyrko, Pavel, **86j:26002**
- Stoček, Britt-Marie Differentiability properties of Bessel potentials and Besov functions. **86b:46050**
- Strauch, Oto A coherence between the Diophantine approximations and the Dini derivatives of some real functions. (Russian and Slovak summaries) **86c:11021**
- Wang, Hann Tsong Convex functions and Fourier coefficients. **86k:26012**
- Wilczyński, W. (with Aversa, V.) Some remarks on \mathcal{J} -approximately continuous functions. **86h:26005**

26A27 Nondifferentiability (nondifferentiable functions, points of nondifferentiability), discontinuous derivatives

- Cater, F. S. Functions with preassigned local maximum points. **86i:26007**
- Gamkrelidze, N. G. The modulus of continuity of the Weierstrass function. (Russian) **86a:26009**
- Malý, Jan Where the continuous functions without unilateral derivatives are typical. **86b:26007**
- Morayne, M. On differentiability of Peano type functions. **86i:26008**

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- Bruckner, A. M. (with Thomson, B. S.) Porosity estimates for the Dini derivatives. **86b:26006**
- Thomson, B. S. See Bruckner, A. M., **86b:26006**

26A30 Singular functions, Cantor functions, functions with other special properties

- Byrd, J. William (with Jones, Robert R.) The determination of periodicity in physical problems from series-solution representation. **86d:26012**
- Ene, Vasile On Luzin's condition (N). (Romanian. English summary) **86b:26008**
- Jastrzebski, Jan (with Strzemiński, Mariusz) On the connectivity for Darboux functions. (Russian summary) **86h:26007**
- Jones, Robert R. See Byrd, J. William, **86d:26012**
- Kan, I. A chaotic function possessing a scrambled set with positive Lebesgue measure. **86b:26009a**
- Miller, Harry I. On a class of functions. (Serbo-Croatian summary) **86c:26006**
- Mukherjee, R. N. See Yadav, Shri Ram, **86j:26006**
- Pawlak, Ryszard Jerzy On some rings of Świątkowski functions. **86f:26006**

- Polubinski, Jerzy Infinite sequences of superpositions of real functions. (Russian and Polish summaries) **86c:26007**
 Pu, H. H. See Pu, H. W., **86j:26005**
 Pu, H. W. (with Pu, H. H.) Measurability of real functions having symmetric derivatives everywhere. **86j:26005**
 Smítal, J. A chaotic function with a scrambled set of positive Lebesgue measure. **86b:26009b**
 Strzesniewski, Mariusz See Jastrzebski, Jan, **86b:26007**
 Yadav, Shri Ram (with Mukherjee, R. N.) A note on arcwise connected sets and functions. **86j:26006**

secondary classifications (26A30)

- Ene, Gabriela An extension of the ordinary variation. **86j:26009**
 Kovács, Katalin The characterization of complex-valued additive functions. **86f:26003**
 Rubin, B. S. One-dimensional representation, inversion and certain properties of Riesz potentials of radial functions. (Russian) **86a:42015**
 Tu, Pao Shing A chaotic function whose nonwandering set is the Cantor ternary set. **86c:58059**
 Zhou, Zuo Ling A generic property of self-mappings of the unit interval. (Chinese) **86d:58071**

26A33 Fractional derivatives and integrals

- Ahuja, Gopi Fractional integration and its application to a pair of dual integral equations. **86g:26006**
 Al-Bassam, M. A. Application of fractional calculus to differential equations of Hermite's type. **86k:26004**
 Cline, David M. See Lether, Frank G. et al., **86j:26007**
 Evans, Otis M. See Lether, Frank G. et al., **86j:26007**
 Lether, Frank G. (with Cline, David M.; Evans, Otis M.) An error analysis for the calculation of semi-integrals and semiderivatives by the RL algorithm. **86j:26007**
 Lowndes, J. S. On some fractional integrals and their applications. **86f:26007**
 McBride, Adam C. On an index law and a result of Bushman. **86c:26008**
 Nishimoto, Katsuyuki ★ Fractional calculus. **86b:26010**
 An application of fractional calculus to the differential equation of Fuchs type $\varphi_2 \cdot z + \varphi_1 \cdot (\nu - az) - \varphi \cdot av = f$. **86g:26007**
 Okikolu, G. O. L^p -estimates for fractional integrals—new proofs of the Hardy-Littlewood-Sobolev theorems. **86d:26013**
 Owa, Shigeyoshi See Srivastava, Hari M., **86b:26011**
 Padmanabhan, K. S. See Reddy, G. Lakshma, **86c:26009**
 Raina, R. K. A theorem on fractional derivatives and its applications. **86c:26008**
 Reddy, G. Lakshma (with Padmanabhan, K. S.) Some properties of fractional integrals and derivatives of univalent functions. **86c:26009**
 Srivastava, Hari M. (with Owa, Shigeyoshi) An application of the fractional derivative. **86b:26011**
 Türke, H. (with Zeller, K.) Riesz mean-value theorem extended. (See **86d:00013**)
 Veber, V. K. On the general theory of linear systems with fractional derivatives. (Russian) (See **86m:00011**)
 Linear equations with fractional derivatives and constant coefficients in spaces of generalized functions. (Russian) (See **86m:00011**)
 Wiener, Klaus Über Lösungen einer in der Theorie der Polarographie auftretenden Differentialgleichung von nichtganzzahliger Ordnung. [On solutions of a differential equation of noninteger order that occurs in the theory of polarography] **86c:26010**
 Über die Lösungsanzahl bei Differentialgleichungen von nichtganzzahliger Ordnung. [On the number of solutions for differential equations of noninteger order] **86k:26005**
 Zeller, K. See Türke, H., (**86d:00013**)

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- Agal, S. N. (with Koul, C. L.) On fractional calculus. **86b:33006**
 Arora, A. K. (with Raina, R. K.; Koul, C. L.) On the two-dimensional Weyl fractional calculus associated with the Laplace transforms. **86i:44002**
 Blacino, Loredana Embedding theorems for partial derivatives of fractional order for functions from $W^r(\Omega)$. (Italian. English summary) **86c:46034**
 Cameron, R. F. (with McKee, Sean) The analysis of product integration methods for Abel's equation using discrete fractional differentiation. **86i:65081**
 Karapetyants, N. K. (with Rubin, B. S.) Operators of fractional integration in spaces with a weight. (Russian. English and Armenian summaries) **86a:47025**
 Koul, C. L. See Agal, S. N., **86b:33006** and Arora, A. K. et al., **86i:44002**
 Lamb, Wilson A distributional theory of fractional calculus. **86g:46055**
 McBride, Adam C. A distributional approach to dual integral equations of Titchmarsh type. **86d:45010**
 McKee, Sean See Cameron, R. F., **86i:65081**
 Miserendino, Doriano Derivatives of fractional order for functions from W^r classes in a bounded rectangle of \mathbb{R}^n , and their trace. (Italian. English summary) **86c:46035**
 Modi, G. C. See Saxena, Ram Kishore, **86k:33004**
 Nishimoto, Katsuyuki See Srivastava, Hari M. et al., **86g:30023**
 Owa, Shigeyoshi See Srivastava, Hari M. et al., **86g:30023**
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 Rubin, B. S. See Karapetyants, N. K., **86a:47025**
 Saxena, Ram Kishore (with Modi, G. C.) Fractional q -integral operators associated with a basic analogue of Srivastava-Daoust's function. **86k:33004**
 Srivastava, Hari M. (with Owa, Shigeyoshi; Nishimoto, Katsuyuki) Some fractional differintegral equations. **86g:30023**
 Strömberg, J.-O. (with Wheeden, Richard L.) Fractional integrals on weighted H^p and L^p spaces. **86f:42016**
 Wheeden, Richard L. See Strömberg, J.-O., **86f:42016**

26A36 Antidifferentiation

- Butsan, G. P. A necessary and sufficient condition for the existence of a Stieltjes integral for a function of bounded variation. (Russian. English summary) **86f:26008**
 Grande, Eulalia Sur un théorème de Marcinkiewicz. (Polish summary) [On a theorem of Marcinkiewicz] **86b:26012**
 Sklyarenko, V. A. See Vinogradova, I. A., **86d:26014**
 Vinogradova, I. A. (with Sklyarenko, V. A.) Certain properties of LG^* -integrable functions. (Russian summary) **86d:26014**

secondary classifications (26A36)

- Davenport, J. H. Integration—what do we want from the theory? **86j:12010**
 Kalfoten, Erich A note on the Risch differential equation. **86h:12010**
 Telyakovskii, S. A. Integrability of sine series. (Russian) **86b:42004**

26A39 Denjoy and Perron integrals, other special integrals

- Baidya, S. (with Bose, M. K.) On the proximal Denjoy-Stieltjes integral. **86m:26005**
 Bose, M. K. (with Nath, R. K.) The proximal Cesàro-Perron integral. **86m:26006**
 See also Nath, R. K., **86k:26007** and Baidya, S., **86m:26005**
 Bullen, P. S. A simple proof of the integration by parts theorem for Perron integrals. **86d:26015**
 A simple proof of integration by parts for the Perron integral. **86d:26016**
 Cross, G. E. (with Shisha, O.) A new approach to integration.
 Foran, James (with O'Malley, Richard J.) Integrability conditions for approximate derivatives. **86j:26008**
 Isaki, Kanehiro On the powerwise integration. **86i:26009**
 Jarník, Jiří (with Kurzweil, Jaroslav) A nonabsolutely convergent integral which admits C^1 -transformations. (Russian and Czech summaries) **86b:26013**
 Kubota, Yôto Remarks on the Henstock integral of Stieltjes type. **86k:26006**
 Kurzweil, Jaroslav See Jarník, Jiří, **86b:26013**
 Nath, R. K. (with Bose, M. K.) On the proximal Cesàro-Denjoy integral. **86k:26007**
 See also Bose, M. K., **86m:26006**
 O'Malley, Richard J. See Foran, James, **86j:26008**
 Ostaszewski, Krzysztof Variational equivalence and generalized absolute continuity. **86b:26008**
 Nonabsolute integration in the plane.
 Schurle, Arlo W. Perron-Stieltjes integrability with respect to gap functions. **86h:26009**
 A new property equivalent to Lebesgue integrability. **86m:26007**
 Shisha, O. See Cross, G. E. (Not in MR)
 Sklyarenko, V. A. The interrelation between some integrals. (Russian) (See **86f:00005**)

secondary classifications (26A39)

- Appling, William D. L. Fields of sets, set functions, set function integrals, and finite additivity. **86a:26033**
 Aversa, Diego Weak weak almost quasiadditivity. (Italian) **86h:26010**
 Benedicks, Michael (with Pfeffer, W. F.) The Dirichlet problem with Denjoy-Perron integrable boundary condition. **86h:31003**
 Mukhopadhyay, S. N. See Pal, B. K., **86m:28005**
 Pal, B. K. (with Mukhopadhyay, S. N.) The Cesàro-Denjoy-Pettis scale of integration. **86m:28005**
 Pfeffer, W. F. See Benedicks, Michael, **86h:31003**
 Sklyarenko, V. A. See Vinogradova, I. A., **86d:26014**
 Thompson, H. B. Taylor's theorem with the integral remainder under very weak differentiability assumptions. **86f:26002**
 Vinogradova, I. A. (with Sklyarenko, V. A.) Certain properties of LG^* -integrable functions. (Russian summary) **86d:26014**

26A42 Integrals of Riemann, Stieltjes and Lebesgue type [See also 28-XX.]

- Benninghofen, Benjamin Superinfinitesimals and the calculus of the generalized Riemann integral. **86g:26008**
 Bor, Hüseyin Integrability of Rees-Stanojević sums. **86c:26010**
 Donchev, T. On the Euler-Maclaurin formula. (Bulgarian. English and Russian summaries) **86c:26009**
 Dubuc, Serge (with Todor, Fabian) La règle du trapèze pour l'intégrale de Riemann-Stieltjes. I, II. [The trapezoid formula for the Riemann-Stieltjes integral. I, II] **86b:26014**
 Fominikh, M. Yu. Properties of Riemann sums. (Russian) **86k:26008**
 Goodman, Gerald S. Zygmund's lemma and Riemann integrability. **86a:26010**
 ter Horst, H. J. Riemann-Stieltjes and Lebesgue-Stieltjes integrability. **86d:26017**
 Ignat'ev, S. A necessary condition for R -integrability. (Russian) **86c:26011**
 Jarník, Jiří (with Kurzweil, Jaroslav) A nonabsolutely convergent integral which admits transformation and can be used for integration on manifolds. **86c:26011**
 Konnerth, Oliver Concerning the integrability of functions of Dirichlet type. (Romanian) **86b:26010**
 Kurzweil, Jaroslav See Jarník, Jiří, **86c:26011**
 Osgood, Charles F. Obtaining a function of bounded coarse variation by a change of variable. **86i:26010**
 Todor, Fabian See Dubuc, Serge, **86b:26014**

secondary classifications (26A42)

- Bullen, P. S. Some applications of partitioning covers. **86a:26014**
 Fetti, Henry E. More trigonometric integrals. **86f:33001**
 Knowles, Ian W. Integral mean value theorems and the Ganelius inequality. **86a:26026**
 Lahiri, B. K. Inner regular sets. **86g:28004**
 Nguyễn Thị Thiệu Hoa Best methods of integration and reconstruction of functions on classes defined by convolutions that do not increase the oscillation. (Russian) **86c:65029**

- Schramm, Michael Functions of Φ -bounded variation and Riemann-Stieltjes integration. **86d:26018**
- Schurle, Arlo W. Perron-Stieltjes integrability with respect to gap functions. **86b:26009**
A new property equivalent to Lebesgue integrability. **86m:26007**
- Zielke, Roland Relative differentiability and integral representation of a class of weak Markov systems. **86j:41019**

26A45 Functions of bounded variation, generalizations

- Clemoncoszowski, J. (with Orlica, W.) Inclusion theorems for classes of functions of generalized bounded variations. **86g:26009**
- Das, A. G. See De Sarkar, S., **86c:26012**
- De Sarkar, S. (with Das, A. G.) On functions of bounded k th variation. **86c:26012**
- Ene, Gabriela An extension of the ordinary variation. **86j:26009**
- Ene, Vasile On Foran's conditions $A(N)$, $B(N)$ and (M) . **86f:26009a**
On Foran's property (M) and its relation to Lusin's property (N) . **86f:26009b**
A study of Foran's conditions $A(N)$ and $B(N)$ and his class \mathcal{F} . **86i:26011**
- Laczkovich, Miklós (with Preiss, David) α -variation and transformation into C^n functions. **86g:26010**
- Mil, Jerzy On bounded variation functions with values in l^2 . **86k:26009**
- Orlica, W. See Clemoncoszowski, J., **86g:26009**
- Poreda, Wiesława (with Wilczyński, W.) Remarks on generalized bounded variation and generalized absolute continuity. (Russian and Polish summaries) **86b:26015**
- Preiss, David See Laczkovich, Miklós, **86g:26010**
- Schramm, Michael Functions of Φ -bounded variation and Riemann-Stieltjes integration. **86d:26018**
- Upton, Christopher John Flinn On an inequality for generalized variation. **86f:26010**
- Vanček, Stanislav Solution of a problem concerning functions of harmonic bounded variation. **86k:26010**
- Waterman, Daniel Change-of-variable invariant classes of functions and convergence of Fourier series. **86m:26008**
- Wilczyński, W. See Poreda, Wiesława, **86b:26015**

secondary classifications (26A45)

- Kislyakov, S. V. A remark on the space of functions of bounded p -variation. **86m:46026**

26A46 Absolutely continuous functions

secondary classifications (26A46)

- Hofbauer, Frans Monotonic mod one transformations. **86g:54061**

26A48 Monotonic functions, generalizations

- Burkill, H. Monotonic functions on partially ordered sets. **86b:26016**
- Evans, Michael Jon (with Larson, Lee) Monotonicity, symmetry, and smoothness. **86m:26009**
- Hasan, Sabir See Zaini, S. Zahid Ali, **86g:26011**
- Larson, Lee See Evans, Michael Jon, **86m:26009**
- Mercer, A. McD. On certain completely monotonic sequences. **86d:26019**
- Mycielski, Jan Remarks on the space of monotonic functions. **86a:26011**
- Trushkin, A. V. Monotony of Lloyd's method II for log-concave density and convex error weighting function. **86a:26012**
- Wang, Si Lei Two theorems on monotone functions. **86a:26013**
A note on two theorems about monotonic functions. (Chinese. English summary) **86b:26017**
- Zaini, S. Zahid Ali Integrability of power series with quasimonotone coefficients. **86b:26018**
(with Hasan, Sabir) A note on the integrability class of the sine transform of a monotonic function. **86g:26011**
Integrability of power series with quasimonotone coefficients. **86i:26012**

secondary classifications (26A48)

- Agronaky, S. (with Bruckner, A. M.; Laczkovich, Miklós; Preiss, David) Convexity conditions and intersections with smooth functions. **86g:26012**
- Alaina, Claudi (with Giménez, J.) L -orderings between strict t -norms. (Spanish. English summary) **86m:54043**
- Bruckner, A. M. See Agronaky, S. et al., **86g:26012**
- Giménez, J. See Alaina, Claudi, **86m:54043**
- Humke, Paul D. (with Laczkovich, Miklós) Typical continuous functions are virtually nonmonotone. **86g:26003**
- Huotari, Robert (with Legg, David) Best monotone approximation in $L_1[0,1]$. **86h:41019**
- Hwang, Jun Shung (with Lin, Kuo Tung) On a generalized moment problem. II. **86c:44006**
- Komlósi, Sándor Generalized convexity of a certain class of quadratic functions. (Russian) **86h:90077**
- Laczkovich, Miklós A generalization of Kemperman's functional inequality $2f(x) \leq f(x+h) + f(x+2h)$. **86h:39021**
See also Humke, Paul D., **86g:26003** and Agronaky, S. et al., **86g:26012**
- Legg, David See Huotari, Robert, **86h:41019**
- Lin, Kuo Tung See Hwang, Jun Shung, **86c:44006**
- Lundberg, Anders Generalized distributivity for real, continuous functions. II. Local solutions in the continuous case. **86k:39012**
- Péteri, József E. Remarks on some inequalities of A. M. Fink. **86c:26019**
- Preiss, David See Agronaky, S. et al., **86g:26012**

26A51 Convexity, generalizations

- Agronaky, S. Intersections of continuous functions with families of smooth functions. (See **86d:00017**)
(with Bruckner, A. M.; Laczkovich, Miklós; Preiss, David) Convexity conditions and intersections with smooth functions. **86g:26012**
- Bruckner, A. M. See Agronaky, S. et al., **86g:26012**
- Craven, B. D. (with Glover, Bevil M.) On nondifferentiable convex functions. **86d:26020**
- Farwig, R. (with Zwick, D.) Some divided difference inequalities for n -convex functions. **86k:26011**
- Glover, Bevil M. See Craven, B. D., **86d:26020**
- Guraşu, Mircia Octavian On convex I -functions. (Romanian. English summary) **86b:26019**
- Herrero, O. See Vilaplana, J.-P., **(86g:00012c)**
- Laczkovich, Miklós See Agronaky, S. et al., **86g:26012**
- Mocanu, Constanţa Starshapedness and convexity of weighted means of higher order. **86f:26011**
- Popoviciu, Elena Sur quelques propriétés des fonctions quasi-convexes. [Some properties of quasiconvex functions] **86f:26012**
Remarques sur les diverses propriétés d'allure. [Remarks on the various properties of "attraction"] **86f:26013**
- Preiss, David See Agronaky, S. et al., **86g:26012**
- Tigan, Ştefan See Toader, Gh., **(86f:00006)**
- Toader, Gh. (with Tigan, Ştefan) Some generalizations of convexity for sequences. (See **86f:00008**)
- Vilaplana, J.-P. (with Herrero, O.) On convex, quasiconvex and pseudoconvex functions. (Spanish. English summary) (See **86g:00012c**)
- Wang, Hann Tsong Convex functions and Fourier coefficients. **86k:26012**
- Zwick, D. A divided difference inequality for n -convex functions. **86c:26013**
See also Farwig, R., **86k:26011**

secondary classifications (26A51)

- Allard, Jacques (with Ghisa, Dorin) Mean values depending on some general functions. **86h:39020a**
- Gajda, Zbigniew Additive and convex functions in linear topological spaces. **86a:39007**
- Ghisa, Dorin On Clarkson inequalities. **86h:39020b**
See also Allard, Jacques, **86h:39020a**
- Hirche, Joachim Verallgemeinerte Konvexität bei Summen und Produkten linearer und gebrochener linearer Funktionen. [Generalized convexity in sums and products of linear and fractional-linear functions] **86a:90048**
- Kuczma, Marek ★ An introduction to the theory of functional equations and inequalities. **86i:39008**
- Milovanović, G. V. (with Milovanović, Igor Ž.) Some results for convex sequences of order k . **86b:26028**
- Milovanović, Igor Ž. See Milovanović, G. V., **86b:26028**
- Ramankutty, P. Liouville theorems for ill-posed problems. **86a:34101**
- Uhrin, Béla Some remarks about the convolution of unimodal functions. **86b:80028**

26A99 None of the above, but in this section

- Bullen, P. S. Some applications of partitioning covers. **86a:26014**
- Drimbe, Mihai Onuicu A generalization of the Lagrange identities. (Romanian) **86b:26020**
- Grande, Zbigniew Sur le maximum approximatif. [On approximative maxima] **86c:26014**
- Shallit, J. O. Some predictable Pierce expansions. **86b:26021**
- Weber, Siegfried \perp -decomposable measures and integrals for Archimedean t -conorms \perp . **86c:26015**

secondary classifications (26A99)

- Coron, Jean-Michel The continuity of the rearrangement in $W^{1,p}(\mathbb{R})$. **86a:46035**
- Mukhopadhyay, S. N. See Pal, B. K., **86c:42022**
- Pal, B. K. (with Mukhopadhyay, S. N.) Denjoy-Bochner almost periodic functions. **86c:42022**

26Bxx Functions of several variables

secondary classifications (26Bxx)

- Price, G. Baley ★ Multivariable analysis. **86k:26001**
- 26B05 Continuity and differentiation questions
- Abreu, José Luis (with González Acuña, Francisco) On the continuity and differentiability of functions along regular curves. **86g:26013**
- Amanov, N. T. Differentiation of a sequence of functions of two variables. (Russian) **86k:26013**
- Ardissone, L. (with Di Piazza, L.) On L^p -differentiability. (Italian) **86g:26014**
- Bokaev, N. A. Differentiation with respect to nets and series in certain orthonormal systems. (Russian. Kazakh summary) **86c:26016**
- Capri, Osvaldo N. (with Fava, Norberto A.) Strong differentiability with respect to product measures. **86m:26010**
- DeVore, R. (with Sharpley, R.) On the differentiability of functions in \mathbb{R}^n . **86b:26022**
- Di Piazza, L. See Ardissone, L., **86g:26014**
- Donato, Patrizia Weak convergence of nonuniformly oscillating functions. **86k:26014**
- Fava, Norberto A. See Capri, Osvaldo N., **86m:26010**
- Firmani, Bruno Characterization of the Vitali Δ_n and Δ_∞ sets for classes of functions defined on countable compact subsets. (Italian. English summary) **86d:26021**
- González Acuña, Francisco See Abreu, José Luis, **86g:26013**
- Grande, Zbigniew Sur les fonctions cliquish. (Russian and Czech summaries) [Cliquish functions] **86m:26011**

- Hsiao, Frank S. T. A general method of deriving higher order differentials of a multivariable composite function. **86b:26023**
- Jonsson, Alf Uniqueness of derivatives of functions defined on closed sets. **86i:26013**
- Khavinson, S. Ya. Representation of functions of two variables by the sums $\varphi(x) + \psi(y)$. (Russian) **86g:26015**
- Krause, Gerianne M. Interior idempotents and nonrepresentability of groupoids. **86a:26015**
- Laczkovich, Miklós (with Petruska, G.) Whitney sets and sets of constancy. On a problem of Whitney. **86i:26014**
- Morayne, M. On continuity of symmetric restrictions of Borel functions. **86b:26024**
- Petruska, G. See Laczkovich, Miklós, **86i:26014**
- Sharples, R. See DeVore, R., **86b:26022**
- Villani, Alfonso On Lusin's condition for the inverse function. (Italian summary) **86d:26022**
- Withers, C. S. A chain rule for differentiation with applications to multivariate Hermite polynomials. **86a:26016**

secondary classifications (26B05)

- Biacino, Loredana Derivatives of fractional order of functions in $W^{s,p}(\mathbb{R}^n)$. (Italian. English summary) **86g:46060**
- Garay, B. M. A metric characterisation of compact plane retracts and applications. **86h:54015**
- Grande, Zbigniew Some problems in differentiation theory. **86h:28004**
- Leach, E. B. (with Sholander, M. C.) Multivariable extended mean values. **86b:26033**
- Liu, Feng Ché Luzin property. **86m:28003**
- Sholander, M. C. See Leach, E. B., **86b:26033**
- Šilhavý, M. The existence of the flux vector and the divergence theorem for general Cauchy fluxes. **86k:73002**
- Skórnik, Krystyna Sobolev's and local derivatives. **86f:46040**
- Villani, Alfonso Functions with a dense set of proper local maximum points. **86k:54027**

26B10 Implicit function theorems, Jacobians, transformations with several variables

- Krawczyk, R. Centered forms and interval operators. (German summary) **86m:26012**
- Leinfelder, Herbert (with Simader, Christian G.) The Brouwer fixed point theorem and the transformation rule for multiple integrals via homotopy arguments. **86g:26016**
- Nikiforov, V. M. Boundedness of variation of a vector set function. (Russian) **86k:26015**
- Simader, Christian G. See Leinfelder, Herbert, **86g:26016**

secondary classifications (26B10)

- Ichiraku, Shigeo A note on global implicit function theorems. **86k:58013**

26B12 Calculus of vector functions

secondary classifications (26B12)

- Tudose, Constantin On some iterated inverse vector operators. (Romanian summary) **86m:44004**

26B15 Integration: length, area, volume [See also 28A75, 51M25.]

- Gundy, R. F. (with Silverstein, Martin L.) The density of the area integral in \mathbb{R}_+^{n+1} . **86e:26012**
- Silverstein, Martin L. See Gundy, R. F., **86e:26012**
- Szabó, György On functions having the same integral on congruent semidisks. **86g:26017**

secondary classifications (26B15)

- Elia, Michele (with Galizia Angeli, M. T.) The length of a lemniscate. **86g:51043**
- Galizia Angeli, M. T. See Elia, Michele, **86g:51043**
- Nitsche, Johannes C. C. A volume formula. **86e:51032**

26B20 Integral formulas (Stokes, Gauss, Green, etc.)

- Abduganiev, A. A. (with Iskanadshiev, I. M.) The problem of calculating an alternating Pontryagin integral. (Russian) (Not in MR)
- Cooperstock, F. I. (with Lim, P. H.) Differentiation of retarded integrals and the divergence theorem for retarded functions with discontinuities. (Not in MR)
- Iskanadshiev, I. M. See Abduganiev, A. A. (Not in MR)
- Lim, P. H. See Cooperstock, F. I. (Not in MR)
- Rešetnyak, Yu. G. A remark on integral representations of differentiable functions of several variables. (Russian) **86c:26017**

secondary classifications (26B20)

- Efimova, E. I. (with Uglanov, A. V.) Formulas of vector analysis in a Banach space. (Russian) **86c:58006**
- Jarník, Jiří (with Kurzweil, Jaroslav) A nonabsolutely convergent integral which admits C^1 -transformations. (Russian and Czech summaries) **86b:26013**
- (with Kurzweil, Jaroslav) A nonabsolutely convergent integral which admits transformation and can be used for integration on manifolds. **86e:26011**
- Kurzweil, Jaroslav See Jarník, Jiří, **86b:26013** and **86e:26011**
- Uglanov, A. V. See Efimova, E. I., **86c:58006**

26B25 Convexity, generalizations

- Agell, Núria Concavity of t -norms and triangular functions. (Spanish. English summary) **86c:26018**
- Fontenot, Robert A. (with Proschan, Frank) Transformations which preserve convexity. **86g:26018**
- Hartwig, Helga Generalized convexities of lower semicontinuous functions. **86m:26013**
- Humke, Paul D. (with Vessey, T. A.) A note on the convergence of convex functions. **86g:26019**
- Komlós, Sándor Contribution to the theory of quasiconvex functions. (Hungarian. English summary) **86c:26019**
- Proschan, Frank See Fontenot, Robert A., **86g:26018**
- Rapcsák, Tamás On the arcwise convexity. (Hungarian. English summary) **86f:26014**
- Toader, Gh. Generalized convex sequences. (Romanian summary) **86d:26023**
- Vessey, T. A. See Humke, Paul D., **86g:26019**

secondary classifications (26B25)

- Goodey, Paul (with Weil, Wolfgang) Distributions and valuations. **86f:52008**
- Raga, I. On the barycenter formula. **86j:46012**
- Stefani, Oscar (with Zirello, G. C.) Approximation measures and sets of constant width. (Italian) **86c:26016**
- Weil, Wolfgang See Goodey, Paul, **86f:52008**
- Zirello, G. C. See Stefani, Oscar, **86c:26016**

26B30 Absolutely continuous functions, functions of bounded variation

- de Gromard, Thierry Quentin Approximation forte dans BV (Ω). (English summary) [Strong approximation in BV (Ω)] **86m:26014**
- Liu, Tie Fu See Wu, Cong Xin (Not in MR)
- Wu, Cong Xin (with Liu, Tie Fu) Abstract functions of bounded second variation. (Chinese. English summary) (Not in MR)

26B35 Special properties of functions of several variables, Hölder conditions, etc.

- Pawlak, Helena (with Wilczyński, W.) On the condition of Darboux and Świątkowski for functions of two variables. (Russian and Polish summaries) **86e:26013**
- Podkorytov, A. N. Intermediate rates of growth of Lebesgue constants. (Russian. English summary) **86k:26016**
- Wilczyński, W. See Pawlak, Helena, **86e:26013**

secondary classifications (26B35)

- Akshiev, G. A. See Smallov, E. S., **86e:46027**
- Dodson, M. M. A Brouwer type coincidence theorem and the fundamental theorem of algebra. **86i:55002**
- Jonsson, Alf Uniqueness of derivatives of functions defined on closed sets. **86i:26013**
- Kononov, V. N. Extension of functions of several variables with preservation of differential-difference properties. (Russian) **86d:41023**
- Krants, Steven G. Lipschitz spaces, smoothness of functions, and approximation theory. **86g:41001**
- Pallas, Georg Gleichgradige Stetigkeit von Familien konvex-konvexer Funktionen. [Equicontinuity of families of concave-convex functions] **86g:49021**
- Smallov, E. S. (with Akshiev, G. A.) Imbedding theorems in Lorentz spaces and their applications. (Russian. Kazakh summary) **86e:46027**

26B40 Representation and superposition of functions

secondary classifications (26B40)

- Rešetnyak, Yu. G. A remark on integral representations of differentiable functions of several variables. (Russian) **86c:26017**

26B99 None of the above, but in this section

- Milici, C. (with Rachin, N.) Sur la méthode des fonctions- R dans les problèmes techniques. (Romanian summary) [The R -function method in technical problems] **86c:26020**
- Páles, Zsolt On the characterization of means defined on a linear space. **86d:26024**
- Rachin, N. See Milici, C., **86c:26020**
- Satimov, N. Yu. Some generalizations of L. S. Pontryagin's square lemma. (Russian) **86a:26017**
- Stokolos, A. M. Differentiation of multiple integrals by bases of rectangles. (Russian. English and Georgian summaries) **86d:26025**

secondary classifications (26B99)

- Burkill, H. Monotonic functions on partially ordered sets. **86b:26016**
- Okuneva, V. A. The Newton polyhedron of the superposition of polynomials. (Russian) **86c:11087**

26Cxx Polynomials, rational functions

26C05 Polynomials: analytic properties, inequalities, etc.

- Beauzamy, B. Produits de polynômes. [Products of polynomials] **86e:26014**
- Ma, Si Liang (with Xu, Zhen Yin) Necessary and sufficient conditions for a polynomial of degree 3 or 4 with real coefficients to be a von Neumann polynomial. (Chinese. English summary) **86m:26015**
- Milovanović, G. V. An extremal problem for polynomials with nonnegative coefficients. **86g:26020**
- Xu, Zhen Yin See Ma, Si Liang, **86m:26015**
- Zhou, Song Ping On a problem of Szabados. **86j:26010**

secondary classifications (26C05)

- Ball, J. M. Differentiability properties of symmetric and isotropic functions. **86g:58015**
 Berger, C. S. See Soh, C. B. et al., **86m:93063**
 Dabke, K. P. See Soh, C. B. et al., **86m:93062**
 Haggard, Paul W. On Legendre numbers. **86j:11021**
 Jonsson, Alf The trace of the Zygmund class $\Lambda_1(R)$ to closed sets and interpolating polynomials. **86m:41003**
 Kristiansen, G. K. Proof of Kuhn's polynomial conjectures. **86d:42002**
 Soh, C. B. (with Berger, C. S.; Dabke, K. P.) On the stability properties of polynomials with perturbed coefficients. **86m:93062**
 Stolarsky, Kenneth B. A family of polynomials with concyclic zeros. III. **86k:30004**

26C10 Polynomials: location of zeros [See also 12D10, 30C15, 65H05.]

- Akritas, A. G. (with Danielopolou, S. D.) A converse rule of signs for polynomials. (German summary) **86i:26015**
 Blalas, S. (with Garloff, J.) Convex combinations of stable polynomials. **86g:26021**
 Borovkov, A. A. (with Lotov, V. I.; Sakhanenko, A. I.) Asymptotics of coefficients of factorised Euler polynomials. (Russian) **86g:26022**
 Danielopolou, S. D. See Akritas, A. G., **86i:26015**
 Feng, Yu Yu Estimation of the zero which is nearest to -1 for Euler-Frobenius polynomials of odd order. (Chinese. English summary) **86a:26018**
 Garloff, J. See Blalas, S., **86g:26021**
 Lotov, V. I. See Borovkov, A. A. et al., **86g:26022**
 Sakhanenko, A. I. See Borovkov, A. A. et al., **86g:26022**

secondary classifications (26C10)

- van Asche, Walter Some results on the asymptotic distribution of the zeros of orthogonal polynomials. **86g:33013**
 Craven, Thomas (with Coardas, George) On the betweenness condition of Rolle's theorem. **86m:26003**
 Coardas, George See Craven, Thomas, **86m:26003**
 Grzesiak, Maciej (with Jankowski, Wiktor) On zeros of a certain polynomial. **86k:30003**
 Jankowski, Wiktor See Grzesiak, Maciej, **86k:30003**
 Kristiansen, G. K. Characterization of polynomials by means of their stationary values. **86h:12001**
 Lorents, G. G. Theorem of Budan-Fourier and Birkhoff interpolation. **86k:41003**
 Semerdzhiev, Khr. I. (with Tamburov, S. G.) A method for determining the multiplicities of zeros of algebraic polynomials. (Russian) **86e:12001**
 Sobolev, S. L. Comportement asymptotique des racines des polynômes d'Euler. (English and Italian summaries) [Asymptotic behavior of the roots of Euler polynomials] **86h:33013**
 Tamburov, S. G. See Semerdzhiev, Khr. I., **86e:12001**
 Zhou, Song Ping On a problem of Szabados. **86j:26010**

26C99 None of the above, but in this section

secondary classifications (26C99)

- Ostrogorski, Tatjana Asymptotic behaviour of Fourier transforms in \mathbb{R}^n . **86g:42023**

26Dxx Inequalities (For maximal function inequalities, see 42B25; for functional inequalities, see 39C05.)

- Redheffer, Ray Easy proofs of hard inequalities. **86i:26016**

secondary classifications (26Dxx)

- (Beckenbach, E. F.) See General inequalities, **86d:00013**
 (Walter, Wolfgang) See General inequalities, **86d:00013**
 Conference:
 General inequalities ★ General inequalities. 3. **86d:00013**
 General inequalities ★ General inequalities. 3. **86d:00013**
 Oberwolfach ★ General inequalities. 3. **86d:00013**

26D05 Inequalities for trigonometric functions and polynomials

- Frappier, Clément (with Rahman, Q. I.; Ruscheweyh, Stephan) New inequalities for polynomials. **86d:26026**
 Goethgeluck, Pierre Une inégalité polynomiale en plusieurs variables. [A polynomial inequality in several variables] **86a:26019**
 Milovanović, G. V. (with Pečarić, Josip E.) On an application of Hermite's interpolation polynomial and some related results. (Serbo-Croatian summary) **86m:26016**
 Pečarić, Josip E. See Milovanović, G. V., **86m:26016**
 Rahman, Q. I. See Frappier, Clément et al., **86d:26026**
 Ruscheweyh, Stephan See Frappier, Clément et al., **86d:26026**
 Zhou, Song Ping Inequalities for derivatives of Lorentz polynomials. (Chinese. English summary) (Not in MR)

secondary classifications (26D05)

- Dalaa, S. M. (with Daugavet, I. K.) Polynomial inequalities for domains of intermediate classes. (Russian. English summary) **86c:46029**
 Daugavet, I. K. See Dalaa, S. M., **86c:46029**
 Lubinsky, D. S. A weighted polynomial inequality. **86e:41021**

26D10 Inequalities involving derivatives and differential and integral operators

- Akinyele, Olusola On an integral inequality in n independent variables. **86d:26027**
 On Gronwall-Bellman-Bihari-type integral inequalities in several variables with retardation. **86c:26021**
 Antonishin, I. O. Asymptotic properties of piecewise continuous functions that satisfy integral inequalities. (Russian) **86f:26015**
 Balnov, D. See Khristova, S. (Not in MR) and (Not in MR)
 Banas, József (with Hajnos, Andrzej; Wędrychowicz, Stanisław) On some integral inequalities. (Russian and Polish summaries) **86c:26023**
 Beesack, Paul R. Lower bounds from discrete inequalities of Gollwitzer-Langenhof type. **86c:26015**
 Bogmér, A. A simple proof for an inequality. **86a:26020**
 Corduneanu, Adrian A nonlinear integral inequality in two independent variables. **86k:26017**
 Dannan, Fost M. Integral inequalities of Gronwall-Bellman-Bihari type and asymptotic behavior of certain second order nonlinear differential equations. **86k:26018**
 (Deo, S. G.) See Yan, Zi Qian (Not in MR)
 (Dhonde, U. D.) See Yan, Zi Qian (Not in MR)
 Dshabbarov, Sh. T. (with Mamedov, G. K.) An integral inequality for functions of two variables and its applications. (Russian. English and Azerbaijani summaries) **86i:26017**
 Fagbun, Abraham Babatope (with Imoru, Christopher Olutunde) On an extension of Opial's inequality. **86f:26016**
 Hajnos, Andrzej See Banas, József et al., **86c:26023**
 Harboure, Eleonor (with Macías, Roberto A.; Segovia, Carlos) A two weight inequality for the fractional integral when $p = n/\alpha$. **86a:26021**
 (with Macías, Roberto A.; Segovia, Carlos) Boundedness of fractional operators on L^p spaces with different weights. **86a:26022**
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 Kamsolov, A. I. Bernstein's inequality for fractional derivatives of polynomials in spherical harmonics. (Russian) **86a:26023**
 Khristova, S. (with Balnov, D.) On some integral inequalities for scalar functions of a vector argument. (Bulgarian. English and Russian summaries) (Not in MR)
 (with Balnov, D.) On a linear generalization of the Gronwall-Bellman inequality for systems of integral equations. (Bulgarian. English and Russian summaries) (Not in MR)
 Kwong, Man Kam (with Zettl, A.) Landau's inequality. **86d:26028**
 Li, Cai Zhong See Wang, Jian Hua, **86c:26016**
 Macías, Roberto A. See Harboure, Eleonor et al., **86a:26021** and **86a:26022**
 Mamedov, G. K. See Dshabbarov, Sh. T., **86i:26017**
 Pachpatte, B. G. A note on some n th order integro-differential inequalities. **86g:26023**
 Reshetnyak, Yu. G. An integral inequality for differentiable functions of several variables. (Russian) **86c:26023**
 Segovia, Carlos See Harboure, Eleonor et al., **86a:26021** and **86a:26022**
 Shao, Pin Cong Another proof of the Opial-Hua inequality. (Chinese) (Not in MR)
 Shuvar, B. A. Integral inequalities of Bihari and Wendroff type. (Russian) **86a:26024**
 Sun, Yong Sheng Some extremum theorems for classes of differentiable functions. (Chinese. English summary) **86j:26011**
 Wang, Jian Hua (with Li, Cai Zhong) Some remarks on integral inequalities of Bellman-Gronwall type. (Chinese. English summary) **86c:26016**
 Wędrychowicz, Stanisław See Banas, József et al., **86c:26023**
 Yan, Zi Qian On integral inequalities of the Bellman-Wendroff-Bihari type, with comments on the paper: "Pointwise estimates of solutions of some Volterra integral equations" [J. Math. Anal. Appl. **45** (1974), 615-628; MR **48** #11948] by U. D. Dhonde and S. G. Deo, and on the paper: "Bellman-Bihari integral inequalities in several independent variables" [ibid. **87** (1982), no. 1, 311-321; errata: MR **83g:34011ab**] by C. C. Yeh. (Chinese. English summary) (Not in MR)
 Yeh, Cheh Chih Discrete inequalities of the Gronwall-Bellman type in n independent variables. **86g:26024a**
 Discrete inequalities of the Gronwall-Bellman type in n independent variables. II. **86g:26024b**
 See also Yan, Zi Qian (Not in MR)
 Young, Eutiquio C. On integral inequalities of Gronwall-Bellman type. **86j:26012**
 Zettl, A. See Kwong, Man Kam, **86d:26028**

secondary classifications (26D10)

- Balnov, D. (with Myshkis, A. D.; Zakhariyev, Andrei) On an abstract analog of the Bellman-Gronwall inequality. **86b:45026**
 See also Khristova, S. (Not in MR)
 Brydak, Dobiesław A generalization of Pólya's theorem. **86c:34027**
 Caffarelli, L. (with Kohn, Robert V.; Nirenberg, Louis) First order interpolation inequalities with weights. **86c:46028**
 Conlan, James (with Wang, Chung Lie) Higher-dimensional Gronwall-Bellman type inequalities. **86a:34025**
 Ding, Yong Weighted Hardy inequalities. (Chinese. English summary) **86c:42030**
 Everitt, W. N. (with Wray, S. D.) On quadratic integral inequalities associated with second-order symmetric differential expressions. **86c:34041**
 Franciosi, Michelangelo (with Moscarello, Gioconda) Higher integrability results. **86i:42032**
 Khristova, S. (with Balnov, D.) Some integral inequalities of Bihari's type. (Bulgarian. English and Russian summaries) (Not in MR)
 Kohn, Robert V. See Caffarelli, L. et al., **86c:46028**
 Kopach, M. I. See Shuvar, B. A., **86c:26024**
 Leung, Pui Fai (with Li, Luen Chau) On the spectrum of the biharmonic operator in a bounded domain. **86g:35146**
 Li, Luen Chau See Leung, Pui Fai, **86g:35146**

- Mikolajski, Z. Sur un "lemme fondamental" de N. Rouche, P. Habets et M. Laloy. [On a fundamental lemma of N. Rouche, P. Habets and M. Laloy] **86b:34084**
- Moscariello, Gioconda See Franciosi, Michelangelo, **86b:42032**
- Myshkis, A. D. See Băinov, D. et al., **86b:45026**
- Nagel, Alexander (with Stein, Elias M.; Wainger, Stephen) Balls and metrics defined by vector fields. I. Basic properties. **86k:46049**
- Nirenberg, Louis See Caffarelli, L. et al., **86c:46028**
- Okikiolu, G. O. L^p -estimates for fractional integrals—new proofs of the Hardy-Littlewood-Sobolev theorems. **86d:26013**
- Shuvar, B. A. (with Kopach, M. I.) Two-sided integral inequalities with several independent variables. (Russian. English summary) **86c:45002**
- Stein, Elias M. See Nagel, Alexander et al., **86k:46049**
- Sun, Dao Chun Some results on meromorphic functions of order (m, n, ρ) . (Chinese. English summary) **86a:30046**
- Talpalaru, Pavel On asymptotic properties of discrete-time systems with retarded argument. **86k:39006**
- Timofeev, V. G. An inequality of Landau type for functions of several variables. (Russian) **86m:41033**
- Wainger, Stephen See Nagel, Alexander et al., **86k:46049**
- Wallin, Hans Markov's inequality on subsets of \mathbb{R}^n . **86a:41015**
- Wang, Chung Lie See Conlan, James, **86a:34025**
- Wray, S. D. See Everitt, W. N., **86c:34041**
- Wu, Yuan Kai Some generalizations of integral inequalities of the Gronwall type. (Chinese. English summary) **86b:34023**
- Yang, En Hao On the most general form of Bellman-type linear inequalities involving multiple-fold integral functionals. **86b:34024**
- Zakhariev, Andrei See Băinov, D. et al., **86b:45026**

26D15 Inequalities for sums, series and integrals

- Agarwal, Ravi P. (with Wilson, S. J.) On discrete inequalities involving higher order partial differences. **86b:26025**
- Beesack, Paul R. See Pečarić, Josip E. et al., **86a:26029**
- Clausing, Achim On quotients of L^p -means. **86g:26025**
- Cochran, James A. (with Lee, Cheng Shyong) Inequalities related to Hardy's and Heine's. **86g:26026**
- Costa, Max H. M. (with Cover, Thomas M.) On the similarity of the entropy power inequality and the Brunn-Minkowski inequality. **86d:26029**
- Cover, Thomas M. See Costa, Max H. M., **86d:26029**
- Deval, Nicolae See Ștefănescu, Vasile, **86h:26013**
- Ding, Ke Quan Note on an inequality for the integral $\int_a^b f(x)g(x)dx$. (Chinese) (Not in MR)
- Ding, Yi Erratum: "On a generalization of Hardy's inequality" [J. Math. (Wuhan) 1 (1981), no. 1, 31-39; MR 83e:26019]. (Chinese) **86d:26026**
- Everitt, W. N. Some examples of Hardy-Littlewood type integral inequalities. (See **86j:00012**)
- Fink, A. M. (with Jodeit, Max, Jr.) On Chebyshev's other inequality. **86m:26017**
- Goetgheluck, P. Landau-type inequalities for functions defined on a bounded interval. Application to functions of several variables. **86d:26030**
- Gould, H. W. (with Mays, M. E.) Series expansions of means. **86a:26025**
- Imoru, Christopher Olutunde On some extensions of Hardy's inequality. **86d:26031**
- Janić, Radovan R. See Pečarić, Josip E. et al., **86a:26029**
- Jodeit, Max, Jr. See Fink, A. M., **86m:26017**
- Kano, Takeshi On the limits of simple means. (Not in MR)
- Klemes, Ivo A mean oscillation inequality. **86c:26024**
- Knowles, Ian W. Integral mean value theorems and the Ganelius inequality. **86a:26026**
- Kovatec, Alexander On an algorithmic method to prove inequalities. **86g:26027**
- A note on Popoviciu's inequality for bilinear forms. **86a:26027**
- Lee, Cheng Shyong See Cochran, James A., **86g:26026**
- Leth, Steven A uniqueness condition for sequences. **86b:26027**
- Levy, Jason J. An easy proof for Schur's inequality. (Not in MR)
- Losonci, L. Hölder-type inequalities. **86c:26017**
- Mays, M. E. See Gould, H. W., **86a:26025**
- Milovanović, G. V. (with Milovanović, Igor Ž.) Some results for convex sequences of order k . **86b:26028**
- (with Milovanović, Igor Ž.) Some discrete inequalities of Opial's type. **86c:26018**
- Milovanović, Igor Ž. See Milovanović, G. V., **86b:26028** and **86c:26018**
- Mohapatra, Ram Narayan (with Russell, D. C.) Integral inequalities related to Hardy's inequality. **86c:26025**
- Musiak, Helena Estimates for functions in S_p^2 - and W^p -metrics. **86k:26019**
- Nashura, Togo An extension of Thunadoff's integral inequality to a class of monotone functions. **86m:26018**
- Páles, Zolt Inequalities for homogeneous means depending on two parameters. **86i:26018**
- Pečarić, Josip E. (with Janić, Radovan R.; Beesack, Paul R.) Note on multidimensional generalizations of Čebyšev's inequality. (Serbo-Croatian summary) **86a:26029**
- An inequality of L. Berwald and some applications. (Serbo-Croatian. English summary) **86b:26029**
- Inverse of Jensen-Steffensen's inequality. II. (Serbo-Croatian summary) **86h:26011**
- On the Ostrowski generalization of Čebyšev's inequality. **86a:26030**
- Remarks on some inequalities of A. M. Fink. **86c:26019**
- On the Bellman generalization of Steffensen's inequality. II. **86f:26017**
- Generalization of some results of H. Burkall and L. Mirsky and some related results. **86a:26028**
- The inductive proof of the Jensen-Steffensen inequality. (Not in MR)
- Pittenger, A. O. The logarithmic mean in n variables. **86b:26012**

- Queffelec, Hervé Quelques remarques autour de l'inégalité de Bohr $\sum_{p \leq N, p \text{ premier}} |c_p| \leq \sup_{t \in \mathbb{R}} |\sum_{n=1}^N c_n n^{it}|$. (English summary) [Remarks on Bohr's inequality $\sum_{p \leq N, p \text{ prime}} |c_p| \leq \sup_{t \in \mathbb{R}} |\sum_{n=1}^N c_n n^{it}|$] **86b:26030**
- Raab, Werner Die Ungleichungen von Vietoris. (English summary) [The inequalities of Vietoris] **86b:26031**
- Radićević-Finci, Atifa On two inequalities. (Serbo-Croatian. English summary) **86d:26032**
- Russell, D. C. See Mohapatra, Ram Narayan, **86c:26025**
- Sherwood, Howard Characterizing dominates on a family of triangular norms. **86i:26019**
- Ștefănescu, Vasile (with Deval, Nicolae) On some inequalities between generalized means and their applications. (Romanian) **86h:26013**
- Sun, Jia Chang Generalizations of the mean values and their inequalities. **86d:26033**
- Tardiff, Robert M. On a generalized Minkowski inequality and its relation to dominates for t -norms. **86j:26013**
- Veldkamp, G. R. Methods of proof for simple inequalities. (Dutch) **86a:26031**
- Wang, Chung Lie Inequalities and mathematical programming. **86c:26020**
- Wilson, S. J. See Agarwal, Ravi P., **86b:26025**
- Yang, En Hao On some new discrete inequalities of the Bellman-Bihari type. **86b:26032**

secondary classifications (26D15)

- Bhattacharya, C. G. Two inequalities with an application. **86a:62034**
- Dickmeis, W. (with Nessel, R. J.) On an inequality of DeVore. **86g:42004**
- Haftmann, Rolf Über die diskrete Hardy'sche Ungleichung zur Stabilitätsuntersuchung von Differenzenverfahren für äußere Randwertaufgaben. [On the discrete Hardy inequality for the stability analysis of difference methods for exterior boundary value problems] **86j:65092**
- Křížek, Michal (with Neittaanmäki, P.) On the validity of Friedrichs' inequalities. **86b:35020**
- Lewis, Roger T. A Friedrichs inequality and an application. **86i:35111**
- Marti, J. T. The least constant in Friedrichs' inequality in one dimension. **86c:46026**
- Neittaanmäki, P. See Křížek, Michal, **86b:35020**
- Nessel, R. J. See Dickmeis, W., **86g:42004**
- Price, John F. (with Racki, Paul C.) Local uncertainty inequalities for Fourier series. **86c:42018**
- Racki, Paul C. See Price, John F., **86c:42018**
- Sakai, Yūji Spectral orders and differences. **86c:46026**
- Stokolos, A. M. An inequality for equimeasurable rearrangements and its application in the theory of differentiation of integrals. (Russian summary) **86a:42022**
- Ushakov, N. G. Upper bounds for the maximum probability for sums of independent random vectors. (Russian) **86g:60008**
- Varopoulos, N. Th. Une généralisation du théorème de Hardy-Littlewood-Sobolev pour les espaces de Dirichlet. (English summary) [A generalization of the Hardy-Littlewood-Sobolev theorem for Dirichlet spaces] **86f:31004**
- Zhou, Song Ping An extension of Markov's inequality. (Chinese. English summary) **86a:41016**

26D20 Other analytical inequalities

- Brenner, J. L. Analytic inequalities with applications to special functions. **86h:26014**
- Cserni, Marek Comparison theorem for a functional inequality. **86c:26021**
- Cavrea, Ioan Sur l'inégalité d'Andersson. [On Andersson's inequality] **86f:26018**
- Imoru, Christopher Olutunde An extension of a type of generalized Hardy's integral inequality. **86f:26019**
- Kairies, H.-H. An inequality for Krull solutions of a certain difference equation. **86c:26022**
- Laczkovich, Miklós On Kemperman's inequality $2f(x) \leq f(x+h) + f(x+2h)$. **86g:26028**
- Leach, E. B. (with Sholander, M. C.) Multivariable extended mean values. **86b:26033**
- Love, E. R. Inequalities between norms in sequence spaces. **86c:26023**
- Popenda, Jerzy On some discrete Gronwall type inequalities. **86m:26019**
- Sholander, M. C. See Leach, E. B., **86b:26033**
- Sun, Yong Sheng A Landau-Kolmogorov type inequality for linear differential operators. (Chinese) (Not in MR)
- Vietoris, Leopold Geschichtliches über gewisse Ungleichungen. [Some historical notes on certain inequalities] **86m:26020**

secondary classifications (26D20)

- Das Gupta, Somesh (with Sarkar, Sanat K.) On TP_2 and log-concavity. **86i:60053**
- Gould, H. W. (with Mays, M. E.) Series expansions of means. **86a:26025**
- James, A. T. On the wedge product. **86a:62081**
- Laban, Miloš M. On some functional inequalities. (Serbo-Croatian summary) **86a:39008**
- Mays, M. E. See Gould, H. W., **86a:26025**
- Pittenger, A. O. The logarithmic mean in n variables. **86b:26012**
- Sarkar, Sanat K. See Das Gupta, Somesh, **86i:60053**
- Türke, H. (with Zeller, K.) Riesz mean-value theorem extended. (See **86d:00013**)
- Upton, Christopher John Finns On an inequality for generalized variation. **86f:26010**
- Wilkins, J. Ernest, Jr. A modulus of continuity for a class of quasismooth functions. **86d:26004**
- Zeller, K. See Türke, H., **(86d:00013)**

26D99 None of the above, but in this section

- Marshall, Albert W. (with Olkin, Ingram) Inequalities via majorization—an introduction. **86c:26024**
- Olkin, Ingram See Marshall, Albert W., **86c:26024**

secondary classifications (26D99)

- Otsuki, Tominosuke Certain inequalities related with a nonlinear differential equation. I, II. **86f:34083**

26Exx Miscellaneous topics [See also 58Cxx.]

26E05 Real-analytic functions

- Cater, F. S. Differentiable, nowhere analytic functions. **86b:26034**
 Cimmino, Gianfranco On analytic rapidly decreasing functions of a real variable. (Italian summary) **86e:26025**
 Korevaar, J. (with Wiegerinck, Johannes Joseph Oscar Odilia) A representation of mixed derivatives with an application to the edge-of-the-wedge theorem. **86m:26021**
 Wiegerinck, Johannes Joseph Oscar Odilia See Korevaar, J., **86m:26021**

secondary classifications (26E05)

- Aronszajn, Nachman (with Creese, Thomas M.; Lipkin, Leonard J.) ★ Polyharmonic functions. **86g:31001**
 Avantaggiati, A. Analyticity and quasi-analyticity deduced from the behavior of Laguerre-Fourier coefficients. (Italian. English summary) **86a:26032**
 Creese, Thomas M. See Aronszajn, Nachman et al., **86g:31001**
 Gerlach, E. See Aronszajn, Nachman et al., **86g:31001**
 Kooze, Paul Fonctions entières de type exponentiel comme multiplicateurs. Un exemple et une condition nécessaire et suffisante. [Entire functions of exponential type as multipliers. An example and a necessary and sufficient condition] **86d:30043**
 Lipkin, Leonard J. See Aronszajn, Nachman et al., **86g:31001**
 Łojasiewicz, Stanisław, Jr. Sur les trajectoires du gradient d'une fonction analytique. [Trajectories of the gradient of an analytic function] **86m:58023**
 Mercer, A. McD. On certain completely monotonic sequences. **86d:26019**
 Vrkot, Ivo Holomorphic extension of a function whose odd derivatives are summable. **86d:30041**

26E10 C^∞ -functions, quasi-analytic functions

- Avantaggiati, A. Analyticity and quasi-analyticity deduced from the behavior of Laguerre-Fourier coefficients. (Italian. English summary) **86a:26032**
 Dahrashyan, M. M. A brief survey of the theory of α -quasianalytic classes. (Russian) **86k:26020**
 Petzsche, Hans-Joachim Approximation of ultradifferentiable functions by polynomials and entire functions. **86d:26034**
 Siddiqui, J. A. On the equivalence of classes of infinitely differentiable functions. (Russian and Armenian summaries) **86g:26029a**
 Letter to the editor: "On the equivalence of classes of infinitely differentiable functions" [Izv. Akad. Nauk Armyan. SSR Ser. Mat. 19 (1984), no. 1, 19-30]. **86g:26029b**

secondary classifications (26E10)

- Balashova, G. S. Some extension theorems in the space of infinitely differentiable functions. **86d:46027**
 Wachta, Krystyna Prolongation des fonctions C^∞ . (English and Russian summaries) [Extension of C^∞ functions] **86e:58007**

26E15 Calculus of functions on infinite-dimensional spaces

- Maniscalco, Caterina Derivation of arbitrary set functions with values in a generic Banach space. (Italian) **86e:26026**

secondary classifications (26E15)

- Margalef Roig, Juan (with Outerelo Domínguez, Enrique) A Whitney extension theorem in infinite dimension and class p . (Spanish) **86i:58015**
 Outerelo Domínguez, Enrique See Margalef Roig, Juan, **86i:58015**

26E20 Calculus of functions taking values in infinite-dimensional spaces

- Ajello, Maria (with Marino, Teresa) A differentiability condition for functions with value in a reflexive Banach space. (Italian) **86j:26014**
 Castañeda Bravo, Fernando Functions of a real variable with values in a convergence vector space. I. Derivatives. (Spanish. English summary) (See **86g:00012b**)
 Marino, Teresa See Ajello, Maria, **86j:26014**
 Turinici, Mihai Metric segments and mean value theorems. **86k:26021**

secondary classifications (26E20)

- Duponcheel, Luc Non-Archimedean (uniformly) continuous measures on homogeneous spaces. **86f:28024**
 Sim, Són Suk Some properties of regularization functionals in reflexive Banach spaces. (Korean. English summary) **86b:46034**

26E25 Set-valued functions [See also 54C60.]

- Appling, William D. L. Fields of sets, set functions, set function integrals, and finite additivity. **86a:26033**
 Garg, K. M. A general nonseparable theory of functions and multifunctions. **86j:26015**
 Ślesak, Włodzisław Ceder's conjecture on Baire 1 selections is not true. **86k:26022**
 Yagubov, A. A. Contingent derivative of a set-valued mapping and the set of admissible directions. (Russian. English and Azerbaijani summaries) **86g:26030**

secondary classifications (26E25)

- Ceder, Jack On some questions on Borel 1 selections. **86j:54038**

26E30 Non-Archimedean analysis [See also 12J25.]

secondary classifications (26E30)

- Coleman, Robert F. A formal analogue of Hilbert's Theorem 90. **86k:12013**
 Schikhof, W. H. Non-Archimedean differentiation. (See **86h:00009a**)

26E35 Nonstandard analysis [See also 03H05.]

- van den Berg, Imme Un point de vue nonstandard sur les développements en série de Taylor. [A nonstandard point of view on Taylor expansions] **86e:26027**
 Henle, J. M. Tangent planes with infinitesimals. **86f:26020**
 Laugwitz, D. Infinitesimals in physics (an introduction to the application of nonstandard methods). **86j:26016**

secondary classifications (26E35)

- van den Berg, Imme Un principe de permanence général. [A general permanence principle] **86e:03061**
 Coletti, Giuliana (with Regoli, Giuliana) Comparing zero probability events. (Italian. English summary) **86j:60004**
 Craven, B. D. Generalized functions for applications. **86g:46058**
 Gonshor, Harry Remarks on the Dedekind completion of a nonstandard model of the reals. **86j:03065**
 Regoli, Giuliana See Coletti, Giuliana, **86j:60004**
 Takuchi, Yu Nonstandard functions and distribution theory. (Spanish. English summary) **86c:46045**
 Xu, Li Zhi Generalized Möbius-Rota inversion theory associated with nonstandard analysis. (Chinese summary) **86b:05010**

26E99 None of the above, but in this section

- Kharashevili, A. B. The Baire property and generalized derivatives. (Russian. English and Georgian summaries) **86g:26031**

secondary classifications (26E99)

- Damyranov, Bl. P. Asymptotic functions of many variables. **86f:46038**
 Julian, William ε -continuity and monotone operations. **86d:46075**
 Torres Hernández, José Luis Vector version of the Dini-Lipschitz and Bernstein criteria. (Spanish. English summary) (See **86h:00009a**)

28-XX MEASURE AND INTEGRATION (For analysis on manifolds, see 58-XX.)

28-01 Elementary exposition; textbooks

- (Ewers, Thomas) See Tolstov, G. P., **86i:28001**
 Folland, Gerald B. ★ Real analysis. **86k:28001**
 Günzler, Hans ★ Integration. (German) [Integration] **86k:28002**
 (Höppner, Reinhard) See Tolstov, G. P., **86i:28001**
 Janssen, A. J. E. M. (with van der Steen, P.) ★ Integration theory. **86e:28001**
 (Kühne, Rolf) See Tolstov, G. P., **86i:28001**
 McShane, E. J. ★ Unified integration. **86c:28002**
 Mukherjee, A. (with Pothoven, K.) ★ Real and functional analysis. Part A. **86j:28001**
 Phillips, Esther R. ★ An introduction to analysis and integration theory. **86c:28003**
 Pothoven, K. See Mukherjee, A., **86j:28001**
 van der Steen, P. See Janssen, A. J. E. M., **86e:28001**
 Tolstov, G. P. ★ Maß und Integral. (German) [Measure and integral] **86i:28001**

secondary classifications (28-01)

- Belkner, H. (with Brehmer, S.) ★ Lebesguesche Integrale. (German) [Lebesgue integrals] **86c:26001b**
 Brehmer, S. See Belkner, H., **86c:26001b**
 Prodakov, Ivan ★ Увод във функционалния анализ. Част I. (Bulgarian) [Introduction to functional analysis. Part I] **86j:46002**
 Saxena, Subhash C. (with Shah, Swarupchand M.) ★ Introduction to real variable theory. **86e:26002**
 Shah, Swarupchand M. See Saxena, Subhash C., **86e:26002**

28-02 Advanced exposition (research surveys, monographs, etc.)

- Kharashevili, A. B. ★ Топологические аспекты теории меры. (Russian) [Topological aspects of measure theory] **86c:28001**

secondary classifications (28-02)

- Christensen, Jens Peter Reus A short survey on modern nonlinear automatic continuity theory. (See **86m:46003**)

28-03 Historical (must also be assigned at least one classification number from Section 01)

secondary classifications (28-03)

- Koshi, Shosho 50 years of real function theory—influence of the theory of integrals. (Japanese) **86f:01028**
 (Lusin, N. N.) See Medvedev, F. A., **86d:01020**
 Medvedev, F. A. Letters of C. de la Vallée-Poussin to N. N. Lusin. (Russian) **86d:01020**
 Moore, Gregory Lebesgue's measure problem and Zermelo's axiom of choice: the mathematical effects of a philosophical dispute. **86c:01044**
 (de la Vallée-Poussin, Charles) See Medvedev, F. A., **86d:01020**
 Correspondence:
 de la Vallée-Poussin, Charles-Lusin, N. N. See Medvedev, F. A., **86d:01020**

28-06 Proceedings, conferences, etc.

secondary classifications (28-06)

(Aleksandrov, I. A.) See *Integral and measure*, 86f:00005(Kharashevili, A. B.) See *Abstracts: Georgian Republic school-seminar on topological aspects of the theory of functions* (Not in MR)(Waterman, Daniel) See *Classical real analysis*, 86f:00013

Abstracts:

Georgian Republic school-seminar on topological aspects of the theory of functions
 ★ Тезисы научных сообщений республиканской школы-семинара "Топологические аспекты теории функций". (Russian) [Abstracts of scientific papers of the Georgian Republic school-seminar "Topological aspects of the theory of functions"] (Not in MR)

Classical real analysis ★ Classical real analysis. 86f:00013

Integral and measure ★ Интеграл и мера. (Russian) [Integral and measure] 86f:00005

Madison, Wis. ★ Classical real analysis. 86f:00013

Meeting:

American Mathematical Society ★ Classical real analysis. 86f:00013

School-seminar:

Georgian Republic, topological aspects of the theory of functions ★ Тезисы научных сообщений республиканской школы-семинара "Топологические аспекты теории функций". (Russian) [Abstracts of scientific papers of the Georgian Republic school-seminar "Topological aspects of the theory of functions"] (Not in MR)

Session:

Classical real analysis ★ Classical real analysis. 86f:00013

Tbilisi ★ Тезисы научных сообщений республиканской школы-семинара "Топологические аспекты теории функций". (Russian) [Abstracts of scientific papers of the Georgian Republic school-seminar "Topological aspects of the theory of functions"] (Not in MR)

28Axx Classical measure theory

28A05 Classes of sets (Borel fields, σ -rings, etc.), measurable sets, Suslin sets, analytic sets [See also 04A15, 26A21, 54H05.]

Arias de Reyna Martínez, Juan Non-Baire measure spaces. 86c:28004

Beck, József Cube-lattices with good distribution behaviour. 86h:28001

Brown, Jack B. Singular sets and Baire order. (See 86d:00017)

Bryl, Włodzisław (with Mysior, Adam) On the extension property of measurable spaces. 86d:28001

Capek, Peter The pathological infinity of measures. 86f:28001

Diamond, Harvey (with Gelles, Gregory) Interlaced second category sets. 86i:28002

Foran, James Nonaveraging sets, dimension and porosity. (See 86d:00017)

Gelles, Gregory See Diamond, Harvey, 86i:28002

Grzegorek, E. Remarks on some Borel structures. 86g:28001

Always of the first category sets. (See 86a:00004)

Hejduk, Jacek Some properties of subsets of \mathbb{R}^n with the Baire property. (Polish summary) 86j:28002

Himmelberg, C. J. (with Van Vleck, F. S.; Priky, Karel) The Hausdorff metric and measurable selections. 86i:28003

Jasiński, Jakub On the combinatorial properties of Blackwell spaces. 86d:28002

Kominak, Z. On a decomposition of the space of real numbers. (Serbo-Croatian summary) 86f:28002

Lahiri, B. K. On separation of sets in measure. 86c:28002

Mattila, Pertti Geometric properties of fractals. (See 86d:00017)

Morgan, John C., II On the general theory of point sets. 86a:28001

Mysior, Adam See Bryl, Włodzisław, 86d:28001

Nagasaka, K. Rarefied sets and their statistical comprehension. 86i:28004

Priky, Karel See Himmelberg, C. J. et al., 86i:28003

Shortt, R. M. Big sets are strongly Blackwell. 86c:28003

Minimal complementation and maximal conjugation for partitions, with an application to Blackwell sets. 86c:28005

Universally measurable spaces: an invariance theorem and diverse characterizations. 86g:28002

Borel density, the marginal problem and isomorphism types of analytic sets. 86c:28006

Products of Blackwell spaces and regular conditional probabilities. (See 86d:00017)

Świąk, Włodzisław La propriété de Baire des fonctions de deux variables. (Polish summary) [The Baire property of functions of two variables] 86f:28003

Thomas, Robin A combinatorial construction of a nonmeasurable set. 86g:28003

Van Vleck, F. S. See Himmelberg, C. J. et al., 86i:28003

Wilczyński, W. Remarks on density topology and its category analogue. 86f:28004

Zalcman, Lawrence Determining sets for functions and measures.

secondary classifications (28A05)

Ashman, C. J. (with Ficker, V.) Families of sets on a finite set. 86c:05016

Barnesley, Michael F. (with Geronimo, J. S.; Harrington, A. N.) Geometry, electrostatic measure and orthogonal polynomials on Julia sets for polynomials. 86a:58052

Carlson, Tim Extending Lebesgue measure by infinitely many sets. 86a:03055

A solution of Ulam's problem on relative measure. 86m:03080

Cichoń, J. (with Kamburella, A.; Pawlikowski, Janusz) On dense subsets of the measure algebra. 86j:04001

Ficker, V. See Ashman, C. J., 86c:05016

Geronimo, J. S. See Barnesley, Michael F. et al., 86a:58052

Harrington, A. N. See Barnesley, Michael F. et al., 86a:58052

Kamburella, A. See Cichoń, J. et al., 86j:04001

Kaufman, Robert P. Representation of Suslin sets by operators. 86d:47004

Lahiri, B. K. Relative measurability. 86d:28008

Lajkó, K. Some general functional equations. 86d:39011

Lin, En Wu The capacity of a family of Carleson sets. (Chinese. English summary) 86c:28009

Maltra, A. (with Srivatsa, V. V.) Parametrizations of Borel sets with large sections. 86k:54031

Massari, U. Sets with a finite perimeter on manifolds. (Italian. English summary) 86a:49081

Miller, Arnold W. Special subsets of the real line. 86i:54037

Miller, Harry I. Some decomposition theorems for the real line. (Serbo-Croatian summary) 86h:28001

Nguyen Xuan Uy A nonremovable set for analytic functions satisfying a Zygmund condition. 86m:30046

Nowak, A. S. Universally measurable strategies in zero-sum stochastic games. 86d:90182

Pawlikowski, Janusz Powers of transitive bases of measure and category. 86k:03041

See also Cichoń, J. et al., 86j:04001

Piłkiewicz, Leszek A remark about separation of K -analytic sets in the product spaces. 86g:54057

Rashkin, L. D. Continuation of a composition submeasure. (Russian) 86m:28002

Saha, N. G. On extension of measures. 86d:28004

Srivatsa, V. V. See Maltra, A., 86k:54031

28A10 Real- or complex-valued set functions

Adamaki, Wolfgang Extensions of tight set functions with applications in topological measure theory. 86c:28007

Adolf, V. A. The Darboux property for a class of nonnegative quasibounded set functions. (Russian) 86i:28005

Dobrakov, Ivan Uniform boundedness principle for exhaustive set functions. 86c:28008

Lahiri, B. K. Inner regular sets. 86g:28004

Mekler, Alan H. Finitely additive measures on \mathbb{N} and the additive property. 86j:28003

Pap, Endre A generalization of a Dieudonné theorem for a nonadditive set function. (Serbo-Croatian summary) 86i:28006a

A simple proof of a generalized Dieudonné theorem. (Serbo-Croatian summary)

86i:28006b

secondary classifications (28A10)

Beaver, Olga R. Stochastic partitions of sub- σ -fields of a probability measure space. 86d:60008

Emmons, David W. Existence of Lindahl equilibria in measure theoretic economies without ordered preferences. 86d:90018

Johnson, Roy A. (with Rogers, C. A.) Hausdorff measure and local measure. II. 86a:28015

Rogers, C. A. See Johnson, Roy A., 86a:28015

28A12 Contents, measures, outer measures, capacities

Adamaki, Wolfgang On the structure of the family of measurable sets. 86g:28005

Aleksandrov, A. D. Measure, interior and boundary. (Russian) 86g:28006

See also Kopylov, A. P., 86g:28007

Ali, S. A. Capacities as sublinear maps with values in a Riesz space. 86j:28004

Anger, Bernd (with Lembcke, Jörn) Infinitely subadditive capacities as upper envelopes of measures. 86f:28005

Barone, Enzo (with Lenzi, Domenico) Some strongly atomic masses. (Italian. English summary) 86k:28003

Bassanesi, Rodney C. (with Greco, Gabriele H.) On the additivity of the integral. (Italian) 86c:28004

Bhaskara Rao, K. P. S. (with Bhaskara Rao, M.) ★ Theory of charges. 86f:28006

Bhaskara Rao, M. See Bhaskara Rao, K. P. S., 86f:28006

Brook, Cecilia H. Decompositions of submeasures. 86d:28003

Datta, Jayantakumar On two theorems of S. Kurepa. 86h:28002

Dobrakov, Ivan On extension of Baire submeasures. (Russian summary) 86f:28007

Godfrey, Colin See Simovici, Dan A., 86h:28003

Greco, Gabriele H. See Bassanesi, Rodney C., 86c:28004

Hill, Theodore P. Equipartitioning common domains of nonatomic measures. 86c:28005

Ivanov, V. V. A geometric criterion for Jordan measurability. (Russian) 86g:28008

Kelley, J. L. (with Srinivasan, T. P.) Measure and integral—a new gambit. 86c:28006

Kim, Choo Whan Wilansky's query on outer measures. 86k:28004

Kopylov, A. P. Comment on: "Measure, interior and boundary" [Sibirsk Mat. Zh. 24 (1983), no. 5, 12–14; MR 86g:28006] by A. D. Aleksandrov. (Russian) 86g:28007

Lembcke, Jörn See Anger, Bernd, 86f:28005

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Lin, En Wu The capacity of a family of Carleson sets. (Chinese. English summary)

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Olekav, I. Ya. (with Pesin, N. I.) Finiteness of the Hausdorff measure of level sets of bounded subsets of a Euclidean space. (Russian) 86k:28005

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Prins, Peter Continuity and extension of valuations. 86m:28001

Rashkin, L. D. Continuation of a composition submeasure. (Russian) 86m:28002

Saha, N. G. On extension of measures. 86d:28004

Simovici, Dan A. (with Godfrey, Colin) Outer measures of finite sets and integrity constraints in relational databases. 86h:28003

Srinivasan, T. P. See Kelley, J. L., 86c:28006

Stich, Werner Über Massfortsetzungsprobleme und einen Zusammenhang mit stochastischen Gleichungen. (English summary) [On problems of measure extensions and a connection with stochastic equations] 86b:28001

(Stone, D. M.) See Bhaskara Rao, K. P. S., 86f:28006

Yan, Jia An Extension of measures. (Chinese. English summary) 86f:28008a

Errata: "Extension of measures". (Chinese) 86f:28008b

Zhao, Hual Zhang An investigation of the Hahn decomposition of a finite generalized measure, and the properties and form of the decomposition. (Not in MR)

secondary classifications (28A12)

- Adamaki, Wolfgang Extensions of tight set functions with applications in topological measure theory. **86c:28007**
- Bruckner, A. M. (with Johnson, K. G.) Path derivatives and growth control. **86d:28008**
- Johnson, K. G. See Bruckner, A. M., **86d:28008**
- Kharasishvili, A. B. Measurability of cardinals and the uniqueness property of σ -finite measures. (Russian. English and Georgian summaries) **86h:03004**
- Koshi, Shosho (with Lai, Han Ch'ing) A metric group based on a measure space. **86m:22002**
- Lai, Han Ch'ing See Koshi, Shosho, **86m:22002**
- Navara, M. The integral on σ -classes is monotonic. **86g:81016**
- Ostrowski, I. V. Measures with infinitely many infinitely divisible extensions. **86a:60024**
- Weber, Hans Pointwise sequential compactness and weak compactness in spaces of contents. **86h:46067**

28A15 Abstract differentiation theory, differentiation of set functions [See also 26A24.]

- Dorogovtsev, A. A. A property of the Radon-Nikodým derivative. (Russian) **86a:28002**
- Grande, Zbigniew Some problems in differentiation theory. **86h:28004**
- Liu, Fung Ch'ing See Bruckner, A. M., **86d:28008**
- Sjögren, Peter A remark on the maximal function for measures in \mathbb{R}^n . **86a:28003**
- Talagrand, Michel Sur les suites de fonctions qui convergent sur les graphes. [On sequences of functions converging on graphs] **86b:28002**

secondary classifications (28A15)

- Chatterji, S. D. Measure theory and amarts. **86i:60135**
- Mink, L. On continuous interval functions. (Russian summary) **86b:65040**

28A20 Measurable and nonmeasurable functions, sequences of measurable functions, modes of convergence

- Akhmedov, Saidamir Akhmedovich A generalized analogue of Bohr's theorem for bounded measurable functions. (Russian) **86g:28009**
- Appell, William D. L. A measurability decomposition characterization theorem. **86c:28010**
- Bobillo Guerrero, P. (with Díaz Carrillo, M.) Sur les fonctions mesurables par rapport à un système de Loomis quelconque. (English summary) [Measurable functions with respect to an arbitrary Loomis system] **86j:28005**
- Brown, Jack B. Continuous restrictions of Marczewski measurable functions.
- Debs, Gabriel Paramétrisations boréliennes. (English summary) [Borel parametrizations] **86i:28007**
- Díaz Carrillo, M. See Bobillo Guerrero, P., **86j:28005**
- Dravecký, Josef On measurability of superpositions. (Russian and Slovak summaries) **86d:28005**
- Duncan, Richard D. (with Szynal, Dominik) On some conditions for the almost everywhere convergence of a class of integrable functions. **86d:28006**
- Grande, Eulalia (with Grande, Zbigniew) Quelques remarques sur la superposition $F(x, f(x))$. [Some remarks on the superposition $F(x, f(x))$] **86c:28011**
- Grande, Zbigniew See Grande, Eulalia, **86c:28011**
- Hackenbroch, Wolfgang Dilated sections and extremal preimage measures. **86d:28007**
- Lahiri, B. K. Relative measurability. **86d:28008**
- de María González, José L. M -measurability. (Spanish. English summary) **86a:28004**
- Mukerjee, H. G. Almost sure equiconvergence of conditional expectations. **86c:28012**
- Pantulaya, G. R. Generalized integrals. (Russian. English and Georgian summaries) **86i:28008**
- Pol, Roman Some remarks about measurable parametrizations. **86j:28006**
- Ricceri, Biagio (with Villani, Alfonso) Separability and Scorza-Dragoni's property. **86h:28005**
- Shkarina, L. V. On the passage to the limit under the Lebesgue integral sign. (Russian) [See **86f:00005**]
- Szynal, Dominik See Duncan, Richard D., **86d:28006**
- Toma, Vladimir Quelques problèmes de mesurabilité des multifonctions. [Some problems of the measurability of multifunctions] **86a:28005**
- Villani, Alfonso See Ricceri, Biagio, **86h:28005**
- Wagner-Bojakowska, Elżbieta The measurable boundaries of a real function. **86i:28009**
- Wilczyński, W. Sequences of measurable functions. **86b:28003**

secondary classifications (28A20)

- Appell, J. (with de Pascale, E.) Some parameters associated with the Hausdorff measure of noncompactness in spaces of measurable functions. (Italian. English summary) **86f:46024**
- de Pascale, E. See Appell, J., **86f:46024**
- Pu, H. H. See Pu, H. W., **86j:28005**
- Pu, H. W. (with Pu, H. H.) Measurability of real functions having symmetric derivatives everywhere. **86j:28005**
- Sato, Shuichi Lusin functions and nontangential maximal functions in the H^p theory on the product of upper half spaces. **86j:42027**

28A25 Integration with respect to measures and other set functions

- Cater, F. S. Equal integrals of functions. **86c:28007**

secondary classifications (28A25)

- Bassanesi, Rodney C. (with Greco, Gabriele H.) On the additivity of the integral. (Italian) **86c:28004**

Greco, Gabriele H. See Bassanesi, Rodney C., **86c:28004**

Gudder, Stanley P. See Zerbe, Julia E., **86m:81020**

Madan, Shobha On the A -integrability of singular integral transforms. **86b:44001**

Yasugi, Mariko Definability in L^p -spaces. **86i:03077**

Zerbe, Julia E. (with Gudder, Stanley P.) Additivity of integrals on generalized measure spaces. **86m:81020**

28A33 Spaces of measures, convergence of measures [See also 46E27, 60Bxx.]

- Brown, Jack B. (with Cox, G. V.) Baire category in spaces of probability measures. II. **86g:28010**
- Cox, G. V. See Brown, Jack B., **86g:28010**
- Dehornoy, Patrick Une propriété de clôture de l'ensemble des images d'une mesure donnée. (English summary) [A closure property of the set of images of a given measure] **86c:28013**
- Dobrákov, Ivan On extension of submeasures. (Russian summary) **86c:28014**
- Fréniche, Francisco José The Vitali-Hahn-Saks theorem for Boolean algebras with the sequential interpolation property. **86c:28008**
- Ghies, Dorin (with Moore, Marc) Module d'une famille de mesures et application aux ensembles aléatoires. [Modulus of a family of measures and application to random sets] **86a:28006**
- Johnson, Jerry An elementary characterization of weak convergence of measures. **86d:28009**
- Kharasishvili, A. B. Some σ -algebras. (Russian) **86c:28009**
- Koumoullis, George (with Sapounakis, A.) Two countability properties of sets of measures. **86d:28010**
- Moore, Marc See Ghies, Dorin, **86a:28006**
- Preis, David (with Rataj, Jan) Maximal sets of orthogonal measures are not analytic. **86d:28011**
- Rataj, Jan See Preis, David, **86d:28011**
- Sapounakis, A. See Koumoullis, George, **86d:28010**
- Zerakidze, Z. S. Weakly separable and separable families of probability measures. (Russian. English and Georgian summaries) **86c:28010**

secondary classifications (28A33)

- Akçoglu, M. A. Sub- L^p -spaces. **86i:46028**
- Babiker, A. G. A. G. Uniformly regular sets of measures on completely regular spaces. **86g:46041**
- De Giorgi, Ennio On a definition of Γ -convergence of measures. **86h:49017**
- Kurts, Thomas G. Approaches to weak convergence. **86k:60004**
- Talagrand, Michel Propriété de Nikodým et propriété de Grothendieck. (English summary) [The Nikodým and Grothendieck properties] **86c:46041**
- Winter, B. B. On the multivariate Helly theorem. **86i:60012**

28A35 Measures and integrals in product spaces

- de Bunje, Albertina ★ Projective systems of probability spaces and measure preserving correspondences. **86g:28011**
- Davies, Roy O. Two remarks on the measure of product sets. **86k:28006**
- Gaffke, Norbert (with Rüschendorf, L.) On the existence of probability measures with given marginals. **86a:28007**
- Humke, Paul D. (with Preis, David) Measures for which σ -porous sets are null. (See **86d:00017**)
- Kellerer, Hans G. Duality theorems for marginal problems. **86i:28010**
- Preis, David See Humke, Paul D., **(86d:00017)**
- Rüschendorf, L. See Gaffke, Norbert, **86a:28007**

secondary classifications (28A35)

- Barcelas, Diómedes (with Panchapagesan, T. V.) A generalization of Fubini's theorem for Banach algebra-valued measures. (Spanish summary) **86b:28006**
- Graessberger, Peter Generalizations of the Hausdorff dimension of fractal measures. **86i:58081**
- Morris, Sidney A. (with Peck, Vincent C.) On the homeomorphic measure property. **86c:58011**
- Panchapagesan, T. V. See Barcelas, Diómedes, **86b:28006**
- Peck, Vincent C. See Morris, Sidney A., **86c:58011**
- Shortt, R. M. Borel density, the marginal problem and isomorphism types of analytic sets. **86c:28006**

28A50 Integration and disintegration of measures

- Maharam, Dorothy On the planar representation of a measurable subfield. **86f:28009**
- Stokoe, A. M. Differentiation of integrals of uniformly measurable functions. (Russian) **86c:28007**

28A51 Lifting theory [See also 46G15.]

- Babiker, A. G. A. G. (with Heller, G.; Strauss, Werner) On a lifting invariance problem. **86g:28012**
- Heller, G. See Babiker, A. G. A. G. et al., **86g:28012**
- Loert, V. Some remarks on invariant liftings. **86g:28013**
- Strauss, Werner See Babiker, A. G. A. G. et al., **86g:28012**

secondary classifications (28A51)

- Nerurkar, Mahesh G. Ergodic continuous skew product actions of amenable groups. **86m:28011**

28A60 Measures on Boolean rings, measure algebras [See also 54H10.]

- Bachman, George (with Szeto, Mabel) On strongly measure replete lattices and the general Wallman remainder. **86d:28012**
- Blewas, Arati (with Ray, K. C.) On measures in a Boolean algebra with values in L -group. **86c:28015**
- Kalmár, I. G. On the measurable homomorphisms. **86c:28016**
- Morales, Pedro Boundedness for uniform semigroup-valued set functions. **86g:28014**
- Ray, K. C. See Blewas, Arati, **86c:28015**
- Szeto, Mabel See Bachman, George, **86d:28012**

secondary classifications (28A60)

- Arias de Reyna Martínez, Juan Non-Baire measure spaces. **86c:28004**
- Frankiewicz, R. Some remarks on embeddings of Boolean algebras. **86h:03108**
- Freiliche, Francisco José The Vitali-Hahn-Saks theorem for Boolean algebras with the subsequential interpolation property. **86c:28008**
- Nedogibchenko, G. V. Exhaustive topologies and measures on Boolean algebras. (Russian) **86m:06028**
- Rao, K. P. S. Bhaskara Remarks on ranges of charges on σ -fields. **86b:28005**
- Weber, Hans Group- and vector-valued s -bounded contents. **86j:28008**

28A75 Length, area, volume, other geometric measure theory [See also 26B15, 49F20.]

- Beck, Anatole A very sparse set of dimension 1. **86c:28017**
- Bombieri, Enrico (with Simon, Leon) On the Gehring link problem. **86g:28015**
- Borsuk, K. (with Nowak, Sławomir; Spieß, S.) Remarks on the n -dimensional geometric measure of compacta. **86c:28018**
- Dupain, Yves (with Mendes France, Michel; Tricot, Claude) Dimensions des spirales. (English summary) [Dimensions of spirals] **86i:28011**
- Hawkes, John Random re-orderings of intervals complementary to a linear set. **86b:28004**
- Mendes France, Michel See Dupain, Yves et al., **86i:28011**
- Nowak, Sławomir See Borsuk, K. et al., **86c:28018**
- Schmidt, Peter-Michael Zum invarianten Inhalt und Mass in topologischen Räumen. [On invariant content and measure in topological spaces] **86c:28011**
- Simon, Leon See Bombieri, Enrico, **86g:28015**
- Spieß, S. See Borsuk, K. et al., **86c:28018**
- Stromquist, Walter (with Woodall, D. R.) Sets on which several measures agree. **86m:28004**
- Taylor, Samuel James (with Tricot, Claude) The packing measure of rectifiable sets. (See **86d:00017**)
- Tricot, Claude See Dupain, Yves et al., **86i:28011** and Taylor, Samuel James, **86d:00017**
- Woodall, D. R. See Stromquist, Walter, **86m:28004**

secondary classifications (28A75)

- Brandi, Primo (with Salvadori, Anna) The nonparametric integral of the calculus of variations as a Weierstrass integral: existence and representation. **86i:49043**
- Goldman, André La mesure de Hausdorff des trajectoires du mouvement brownien à plusieurs paramètres. (English summary) [Hausdorff measure for the range of a time-multidimensional Brownian motion process] **86j:60186**
- Salvadori, Anna See Brandi, Primo, **86i:49043**

28A99 None of the above, but in this section

- Ostrov'skiĭ, I. V. Support of a convolution of finite measures, and measures determined uniquely by the restriction to a half-line. (Russian. English summary) **86c:28019**
- Plachky, D. (with Thomsen, W.) Construction of locally extremal measure extensions. **86a:28008**
- Rao, K. P. S. Bhaskara Remarks on ranges of charges on σ -fields. **86b:28005**
- Stefani, Oscar Approximating measures and covers. (Italian. English summary) **86h:28006**
- Talamo, Rodolfo Ultrafilters, classes of ideals and measure theory. **86d:28013**
- Thomsen, W. See Plachky, D., **86a:28008**
- Wang, Zhen Yuan The autocontinuity of set function and the fuzzy integral. **86c:28020**

secondary classifications (28A99)

- Hawkins, Jane (with Woods, E. J.) Approximately transitive diffeomorphisms of the circle. **86a:47004**
- Truong-Van, B. Applications of autoreproducing kernel moduli to the study on interpolability and minimality of a class of stationary Hilbertian varieties. **86b:60061**
- Woods, E. J. See Hawkins, Jane, **86a:47004**

28Bxx Measures and integrals with values in abstract spaces

28B05 Vector-valued measures and integrals [See also 46G10.]

- Aleksandrov, I. I. On the theory of the Hellinger integral. (Russian) **86j:28007**
- Anantharaman, R. (with Garg, K. M.) The properties of a residual set of vector measures. **86d:28014**
- Barcenas, Diómedes (with Panchapagesan, T. V.) A generalization of Fubini's theorem for Banach algebra-valued measures. (Spanish summary) **86b:28006**
- Batie Nicolau, Nadal (with Congost, M.) Vector integrals and processes with orthogonal increments. (Spanish. English summary) (See **86h:00096**)
- Congost, M. A note on the construction of measures taking their values in a Banach space with basis. **86c:28021**
- See also Batie Nicolau, Nadal, (**86h:00096**)
- Cucurean Zapan, Mihai See Vecsan-Cucurean, Clara, **86g:28018**
- Garg, K. M. See Anantharaman, R., **86d:28014**

- Jeffries, Brian Conditional expectation for operator-valued measures and functions. **86d:28015**
- Kakihara, Yūichirō Semivariation and operator semivariation of Hilbert space valued measures. **86a:28009**
- Khafisov, M. Kh. Absolute and weakly absolute continuity of vector-valued additive set functions. (Russian) **86a:28010**
- Absolute and weak absolute continuity of triangular vector functions of a set. (Russian) **86b:28007**
- Klein, Ch. Invariance properties of the Banach algebra of Darboux integrable functions. **86c:28012**
- (with Rolewicz, Stefan) On Riemann integration of functions with values in topological linear spaces. **86g:28016**
- Kundu, S. K. See Paul, P. K., **86a:28011** and **86h:28007**
- Martellotti, Anna Topological properties of the range of a group-valued finitely additive measure. **86c:28008**
- Mukhopadhyay, S. N. See Pal, B. K., **86m:28005**
- Nakanishi, Shisuo The Bochner integral for functions with values in certain ranked vector spaces and the Radon-Nikodým theorem. **86c:28022**
- Ohba, Sachio The range of vector charges. (Japanese summary) **86f:28011**
- Pal, B. K. (with Mukhopadhyay, S. N.) The Cesàro-Denjoy-Pettis scale of integration. **86m:28005**
- Panchapagesan, T. V. See Barcenas, Diómedes, **86b:28006**
- Paul, P. K. (with Kundu, S. K.) On regularity of vector-valued measures. **86a:28011**
- (with Kundu, S. K.) On the extensions of a family of vector submeasures. **86h:28007**
- Riddle, Lawrence H. (with Saab, E.) On functions that are universally Pettis integrable. **86i:28012**
- Rolewicz, Stefan See Klein, Ch., **86g:28016**
- Saab, E. See Riddle, Lawrence H., **86i:28012**
- Swartz, Charles Fubini's theorem for tensor product measures. **86b:28008**
- Taguchi, Yoshiko On a P-type integral. (French summary) **86g:28017**
- Vecsan-Cucurean, Clara (with Cucurean Zapan, Mihai) Extension of vector and group-valued submeasures. **86g:28018**
- Some properties of vector submeasures. **86f:28010**

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- Andrews, Kevin T. Universal Pettis integrability. **86j:46040**
- Barcelo Taberner, B. Representation of operators on $L^{(p)}(\mu)$ -spaces by vector measures. (Spanish) **86c:47038**
- Bellow, A. For the historical record. **86i:46021**
- Blondia, C. The Radon-Nikodým property for locally convex Suslin spaces. **86h:46072**
- The completeness of L^1_E and webbed spaces. **86j:46007**
- Bobrowaki, Dobiesław (with Gołbiewski, T.) Remarks on random functional spaces. **86h:60101**
- Borell, Christer Convexity of measures in certain convex cones in vector space σ -algebras. **86f:60010**
- Dinh Quang Lu'u Stability and convergence of amarts in Fréchet spaces. **86j:60116**
- Dobrakov, Ivan Uniform boundedness principle for exhaustive set functions. **86c:28008**
- (with Morales, Pedro) On integration in Banach spaces. VI. **86h:46073**
- Egghe, L. Convergence of adapted sequences of Pettis-integrable functions. **86j:60117**
- Gołbiewski, T. See Bobrowaki, Dobiesław, **86h:60101**
- Gutman, Semion Topological equivalence in the space of integrable vector-valued functions. **86b:46054**
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- On the sequential approximation of scalarly measurable functions by simple functions. **86b:46068**
- Kiel, Heinz-Albrecht Compacité faible de parties décomposables de L^1_E . (English summary) [Weak compactness of decomposable subsets of L^1_E] **86k:46054**
- Kozłowski, W. M. A note on the continuity of nonlinear operators. **86g:47084**
- (with Szczyński, T.) Some remarks on the nonlinear operator measures and integration. **86g:47085a**
- Kuchkarov, Ya. ★ Вероятностные распределения со значениями в пространствах измеримых функций. (Russian) [Probability distributions with values in spaces of measurable functions] **86k:60009**
- Li, Xun Jing Vector-valued measure and the necessary conditions for the optimal control problems of linear systems. (See **86g:93002**)
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- Mallinik, S. M. Admissible shifts of the Cauchy measure. (Russian) **86c:60067**
- Mamurov, B. Zh. Nonuniform estimates for the rate of convergence in the central limit theorem for L_0 -valued probabilities. (Russian) **86i:60018**
- de María González, José L. (with Rodríguez-Salinas, Baltasar) The "heart" of a vector function. (Spanish. English summary) **86j:46041**
- Mitter, Sanjoy K. (with Young, Stephen K.) Integration with respect to operator-valued measures with applications to quantum estimation theory. **86c:46036**
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- Nieme, Hannu Grothendieck's inequality and minimal orthogonally scattered dilations. **86f:46043**
- Subordination, rank, and determinism of multivariate stationary sequences. **86d:60043**
- Oharu, Shinnosuke See Hashimoto, Kazuo, **86b:46069**
- Okada, Susumu A tensor product vector integral. **86f:46044**
- Papageorgiou, Nikolaos S. Carathéodory convex integrand operators and probability theory. **86f:90160**
- Ricker, Werner Characterization of Stieltjes transforms of vector measures and an application to spectral theory. **86h:47050**
- Rodríguez-Salinas, Baltasar See de María González, José L., **86j:46041**

- Smith, W. V. (with Tucker, Don H.) Weak integral convergence theorems and operator measures. **86c:46040**
- Stromquist, Walter (with Woodall, D. R.) Sets on which several measures agree. **86m:28004**
- Swartz, Charles Correction to: "Integrating bounded functions for the Dobrakov integral" [Math. Slovaca **33** (1983), no. 2, 141-144; MR 85b:46049]. **86f:46045**
- Szczypliński, T. On the representation of nonlinear operators defined on spaces of measurable functions. **86g:47085b**
- See also Kosłowski, W. M., **86g:47085a**
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28B10 Group- or semigroup-valued measures and integrals

- Aversa, V. (with Rao, K. P. S. Bhaskara) Tarski's extension theorem for group-valued charges. **86c:28023**
- Dadić, Rade M. Concerning an incorrect definition of the notion of integral. (Serbo-Croatian summary) **86c:28024**
- Fox, Geoffrey (with Morales, Pedro) Théorèmes de Nikodým et de Vitali-Hahn-Saks pour les mesures à valeurs dans un semigroupe uniforme. [Nikodým and Vitali-Hahn-Saks theorems for measures with values in a uniform semigroup] **86a:28012**
- Jiménez Guerra, Pedro On the range of semigroup valued measures. **86k:28000**
- Khan, A. R. (with Rowlands, K.) A decomposition theorem for submeasures. **86g:28019**
- Klimkin, V. M. Regular finitely additive set functions in a topological group. (Russian) **86m:28006**
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- Morales, Pedro See Fox, Geoffrey, **86a:28012**
- Rao, K. P. S. Bhaskara (with de Lucia, Paolo) On strongly continuous functions with values in a topological group. (Italian) **86a:28013**
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- Rowlands, K. See Khan, A. R., **86g:28019**
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- Weber, Hans Group- and vector-valued α -bounded contents. **86j:28008**

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- Ali, S. A. Capacities as sublinear maps with values in a Riesz space. **86j:28004**
- Areshkin, G. Ya. (with Koroleva, L. G.) On the theory of the Kolmogorov integral. (Russian) **86h:46071**
- Chakrabarti, Sadasiv (with Lahiri, B. K.) Density topology in a topological group. **86h:22006**
- Cuciurean Zapan, Mihai See Vescan-Cuciurean, Clara, **86g:28018**
- Gogudase, D. F. Simple and double integrals of set functions with values in topological semigroups. I. (Russian) **86i:28013a**
- Simple and double integrals of set functions with values in topological semigroups. II. (Russian) **86i:28013b**
- Koroleva, L. G. See Areshkin, G. Ya., **86h:46071**
- Lahiri, B. K. See Chakrabarti, Sadasiv, **86h:22006**
- Pap, Endre A generalization of a Dieudonné theorem for a nonadditive set function. (Serbo-Croatian summary) **86i:28006a**
- A simple proof of a generalized Dieudonné theorem. (Serbo-Croatian summary) **86i:28006b**
- Stepin, A. M. Approximability of groups and group actions. (Russian) **86b:46100**
- Vescan-Cuciurean, Clara (with Cuciurean Zapan, Mihai) Extension of vector and group-valued submeasures. **86g:28018**

28B15 Measures and integrals with values in general ordered systems

- Hrachovina, Ervin About regular measures with values in ordered space. (Russian and Slovak summaries) **86b:28010**
- On regular vector measures. (Russian and Slovak summaries) **86c:28013**
- Kindler, Jürgen Integral representation of functionals on arbitrary sets of functions. **86c:28025**
- Kundu, S. K. See Paul, P. K., **86c:28026**
- Lipovan, O. σ -algebras with probabilistic σ -submeasures. (Romanian summary) (Not in MR)
- Murakami, Rikichirō On the representation of singular measures. **86m:28007**
- Paul, P. K. (with Kundu, S. K.) On the extension of a vector-submeasure. **86c:28026**
- Riečan, Bečolav Notes on lattice-valued measures. (Russian and Slovak summaries) **86b:28011**

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- Beg, Ismat (with Grigore, Gh.) Representation of (no)-bounded linear operators on a measure space. **86c:47034**
- Dadić, Rade M. Concerning an incorrect definition of the notion of integral. (Serbo-Croatian summary) **86c:28024**
- Grigore, Gh. See Beg, Ismat, **86c:47034**
- Khan, A. R. (with Rowlands, K.) A decomposition theorem for submeasures. **86g:28019**
- Kundu, S. K. See Paul, P. K., **86a:28011** and **86h:28007**
- Paul, P. K. (with Kundu, S. K.) On regularity of vector-valued measures. **86a:28011**
- (with Kundu, S. K.) On the extensions of a family of vector submeasures. **86h:28007**
- Rowlands, K. See Khan, A. R., **86g:28019**

28B20 Set-valued measures; integration of set-valued functions; measurable selections [See also 54C60, 54C65.]

- Cuciurean Zapan, Mihai A Gould type integration of multifunctions. **86f:28012**
- Czerwik, S. Random fixed point theorems for a system of multivalued mappings. **86k:28010**
- Gogudase, D. F. Simple and double integrals of set functions with values in topological semigroups. I. (Russian) **86i:28013a**
- Simple and double integrals of set functions with values in topological semigroups. II. (Russian) **86i:28013b**
- Hansell, Roger W. A measurable selection and representation theorem in nonseparable spaces. **86h:28009**
- Jayne, J. E. (with Rogers, C. A.) Sélections boréliennes de multi-applications semi-continues supérieurement. (French summary) [Borel measurable selectors for upper semicontinuous multivalued maps] **86f:28013**
- Kocsan, Leopold (with Szapiel, Wojciech) Extremal problems in some classes of measures. I, II. **86b:28012**
- Levi, Sandro A survey of Borel selection theory. **86c:28027**
- Lipovan, O. A version of the convergence Vitali's theorem for sequences of set-valued functions. (Romanian summary) **86c:28028**
- Pucci, Patrizia (with Vitillaro, Giuseppe) A representation theorem for Aumann integrals. **86d:28016**
- Rogers, C. A. See Jayne, J. E., **86f:28013**
- Ślesak, Włodzimierz Sharpness of some graph conditioned theorems on Borel 1 selectors. **86k:28011**
- Szapiel, Wojciech See Kocsan, Leopold, **86b:28012**
- Vitillaro, Giuseppe See Pucci, Patrizia, **86d:28016**

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- Appling, William D. L. Fields of sets, set functions, set function integrals, and finite additivity. **86a:26033**
- Di Bari, Cristina M. (with Vetro, Pasquale) Continuous or measurable selections. **86d:54020**
- Dinh Quang Lu'u Applications of set-valued Radon-Nikodým theorems to convergence of multivalued L^1 -amarts. **86b:60084**
- Garg, K. M. A general nonseparable theory of functions and multifunctions. **86j:28015**
- Himmelberg, C. J. (with Van Vleck, F. S.; Priky, Karel) The Hausdorff metric and measurable selections. **86i:28003**
- Klein, Erwin (with Thompson, Anthony C.) ★ Theory of correspondences. **86a:90012**
- Pets, Dăneş Direct integral of multifunctions into von Neumann algebras. **86h:46007**
- Priky, Karel See Himmelberg, C. J. et al., **86i:28003**
- Srebrny, Marian Measurable selectors of PCA multifunctions with applications. **86c:03043**
- Thompson, Anthony C. See Klein, Erwin, **86a:90012**
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- Vetro, Pasquale See Di Bari, Cristina M., **86d:54020**

28B99 None of the above, but in this section

- Aversa, Diego Weak weak almost quasiadditivity. (Italian) **86h:28010**
- Pelc, Andrzej Measure theory from the set theory point of view. (Polish) **86f:28014**

secondary classifications (28B99)

- Kuchkarov, Ya. (with Mamurov, B. D.) Estimate of the rate of convergence in the multidimensional central limit theorem for L_0 -valued probabilities. (Russian) **86a:60031**
- Mamurov, B. D. See Kuchkarov, Ya., **86a:60031**

28Cxx Measures on spaces with additional structure [See also 46G12, 58C35, 58D20.]

28C05 Integration theory via linear functionals (Radon measures, Daniell integrals, etc.), representing measures

- Gardner, Richard J. (with Pfeffer, W. F.) Conditions that imply a space is Radon. **86c:28014**
- Núñez Jiménez, Manuel See Rojo García, Jesús, **(86j:00013)**
- Okada, Susumu Vector Daniell integrals. (Russian summary) **86a:28014**
- Pfeffer, W. F. See Gardner, Richard J., **86c:28014**
- Rojo García, Jesús (with Núñez Jiménez, Manuel) Locations and random measures. (Spanish. English summary) (See **86j:00013**)
- Sigginl, Kenny Koffi Sur la limite projective des multimesures de Radon positives. (English summary) [On projectively defined positive set-valued Radon measures] **86c:28015**

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- Kitchen, Joseph W. (with Robbins, David A.) Internal functionals and bundle duals. **86i:46077**
- Leinert, Michael Plancherel's theorem and integration without the lattice condition. **86j:43002**
- Robbins, David A. See Kitchen, Joseph W., **86i:46077**
- Thomas, Erik G. F. Invariant Daniell integrals. **86c:28027**

28C10 Measures on topological groups, Haar measures, invariant measures [See also 43A05.]

- Antosik, Piotr (with Swartz, Charles) The Vitali-Hahn-Saks theorem for algebras. 86j:28009
 Costinescu, Olga A positive invariant integral on an (S) -continuous group. (French summary) 86f:28015
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- Belley, J.-M. (with Morales, Pedro) Corrigendum and addendum to: "A generalization of Wiener's criteria for the continuity of a Borel measure" [Studia Math. 73 (1982), no. 1, 27-36; MR 84j:43001]. 86g:43002
 Brown, Timothy C. (with Cartwright, Donald I.; Eagleson, G. K.) Characterizations of invariant distributions. 86i:60023
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 Eagleson, G. K. See Brown, Timothy C. et al., 86i:60023
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 Kim, Choo Whan Doubly stochastic right multipliers. 86f:43005
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28C15 Measures on topological spaces (regularity of measures, etc.)

- Baile, Achille A Lebesgue-type decomposition theorem for topologies on rings of sets. (Italian. English summary) 86i:28014
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 Zhdanok, A. I. Regularization of finitely additive measures. (Russian) 86c:28033
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 Shortt, R. M. Borel density, the marginal problem and isomorphism types of analytic sets. 86c:28006
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 Vakhaniya, N. N. (with Tarieladze, V. I.; Chobanyan, S. A.) ★ Вероятностные распределения в банаховых пространствах. (Russian) [Probability distributions in Banach spaces] 86j:60014

28C20 Measures and integrals in function spaces (Wiener measure, Gauss measure, etc.) [See also 58D20, 60B11.]

- Ahn, Jae Moon A note on Cameron-Storvick's N parallel lines theorem. (Korean summary) 86c:28017
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 Chang, Joo Sup See Chang, Kun Soo, 86c:28018
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 Sujan, Stefan Some functionals on sets of stationary codes. 86i:28016
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- Bell, Denis A quasi-invariance theorem for measures on Banach spaces. 86j:46043
 Bilushchak, G. I. (with Kozak, P. P.) Wiener measure in the space of continuous functions of an infinite number of variables. (Russian. English summary) 86f:46046
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 Caraman, Petru Quasiconformal mappings in abstract Wiener spaces. 86a:30033
 Chang, Kun Soo (with Johnson, Gerald W.; Skoug, D. L.) Necessary and sufficient conditions for the Fresnel integrability of certain classes of functions. 86b:46070
 Daletskii, Yu. L. (with Fomin, S. V.) ★ Меры и дифференциальные уравнения в бесконечномерных пространствах. (Russian) [Measures and differential equations in infinite-dimensional spaces] 86g:46059
 Faden, Arnold M. The existence of regular conditional probabilities: necessary and sufficient conditions. 86h:60001
 Fernández Vivas, C. Measures of association and bivariate dependence. (Spanish) (Not in MR)
 Fomin, S. V. See Daletskii, Yu. L., 86g:46059
 Gavryliv, O. S. (with Kozak, P. P.) A multiple abstract Wiener integral and its properties. (Russian. English summary) 86h:46075
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 Lowen, Robert On the existence of natural fuzzy topologies on spaces of probability measures. 86c:54007
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- Skorokhod, A. V. Transformations of a Wiener space that are connected with differential operators with coefficients dependent on the past. (Russian) (See 86b:34002)
- Skoug, D. L. See Chang, Kun Soo et al., 86b:46070
- Smoleński, W. An abstract form of a counterexample of Marek Kanter. 86m:60014
- Storvik, D. A. See Cameron, R. H., 86c:81029
- Suchanecki, Zdzisław (with Weron, Aleksander) Decomposability of cylindrical martingales and absolutely summing operators. 86b:60007
- Thomas, Erik G. F. A simple proof of the Cameron-Martin theorem making use of Schwartz reproducing kernels. 86i:60113
- Weron, Aleksander See Suchanecki, Zdzisław, 86b:60007
- Wojcicki, Wojbor A. See Rosiński, Jan, 86j:60123
- Yanagi, K. A new formulation of relative entropy and quantum measurements. 86j:81059
- Zhidkov, E. P. (with Lobanov, Yu. Yu.; Sidorova, O. V.) ★ Приближенные формулы с весом для континуальных интегралов по условной мере Винера. (Russian) [Approximation formulas with weight for path integrals with respect to the conditional Wiener measure] 86f:65047

28C99 None of the above, but in this section

- Christensen, Jens Peter Reus Geometric measure theory in infinite-dimensional Banach spaces. (See 86m:46003)

secondary classifications (28C99)

- Borsuk, K. (with Nowak, Sławomir; Spieß, S.) Remarks on the n -dimensional geometric measure of compacta. 86c:28018
- D'Andrea, Antonina Determining in projective space P_3 two-parameter families of measurable surfaces whose maximum invariance group is the triangular group or one of its subgroups. (Italian) 86b:53067
- Nowak, Sławomir See Borsuk, K. et al., 86c:28018
- Spieß, S. See Borsuk, K. et al., 86c:28018
- Stoka, Marius Some problems of integral geometry in projective space P_3 . (Italian. French summary) 86b:53069

28Dxx Measure-theoretic ergodic theory [See also 22D40, 47A35, 54H20, 58Fxx, 60Fxx, 60G10.]

- Moulin Ollagnier, Jean ★ Ergodic theory and statistical mechanics. 86b:28013

secondary classifications (28Dxx)

- Brunel, Antoine Théorie ergodique: aspects historiques, progrès récents. [Ergodic theory: historical aspects, recent progress] 86i:01035

28D05 Measure-preserving transformations

- Abundo, M. (with Tirozzi, Brunello) The central limit theorem for a class of maps of the interval $[0, 1]$. (Italian summary) 86g:28020
- Adler, R. L. (with Kitchens, B.; Marcus, B. H.) Finite group actions on shifts of finite type. 86b:28009
- Alpern, Steve Conjecture: in general a mixing transformation is not two-fold mixing. 86h:28014
- Atencia, E. (with Martín-Reyes, F. J.) Weak type inequalities for the maximal ergodic function and the maximal ergodic Hilbert transform in weighted spaces. 86f:28020
- Baker, Kirby A. Strong shift equivalence of 2×2 matrices of nonnegative integers. 86g:28021
- Bellow, A. (with Losert, V.) On sequences of density zero in ergodic theory. 86c:28034
- (with Losert, V.) The weighted pointwise ergodic theorem and the individual ergodic theorem along subsequences. 86c:28035
- Berend, Daniel (with Bergelson, Vitaly) Ergodic and mixing sequences of transformations. 86i:28017
- Bergelson, Vitaly See Berend, Daniel, 86i:28017
- Blinkowska, Maria (with Kamiński, Brunan) Classification of ergodic finitary shifts. (French summary) 86h:28015
- Weak mixing finitary shifts are Bernoulli. (Russian summary) 86c:28036
- Boyarsky, Abraham On the significance of absolutely continuous invariant measures. 86b:28013
- Boyle, Mike Shift equivalence and the Jordan form away from zero. 86i:28018
- Bradley, Richard C. On a very weak Bernoulli condition. 86a:28018
- Brown, Gavin (with Dooley, A. H.) Ergodic measures are of weak product type. 86g:28022
- Conse, Jean-Pierre (with Lesigne, Emmanuel) Théorèmes ergodiques pour des mesures diagonales. (English summary) [Ergodic theorems for diagonal measures] 86i:28019
- Conot, J. Multidimensional invariant densities of discrete dynamic systems. (Russian summary) (See 86f:34003)
- Dooley, A. H. See Brown, Gavin, 86g:28022
- Fieldsteel, Adam Stability of the weak Pinsker property for flows. 86i:28020
- Friedman, N. A. (with Thomas, E. S.) Higher order sweeping out. 86h:28016
- Golodets, V. Ya. (with Sinelshchikov, S. D.) Locally compact groups appearing as ranges of cocycles of ergodic \mathbb{Z} -actions. 86m:28010
- Graf, Siegfried (with Mauldin, R. Daniel; Williams, S. C.) Random homeomorphisms. 86i:28021
- Gul'var'h, Y. Exposants caractéristiques des produits de matrices aléatoires en dépendance markovienne. [Characteristic exponents of products of Markov-dependent random matrices] 86g:28023
- Harman, Blahoslav Subadditive maximal ergodic theorem. (Russian summary) 86b:28014
- Jablonski, M. The law of exponential decay for expanding transformations of the unit interval into itself. 86b:28015

- del Junco, A. (with Rudolph, Daniel J.) ★ On ergodic actions whose self-joinings are graphs. 86i:28022
- Kalkow, Steven Arthur Twofold mixing implies threefold mixing for rank one transformations. 86i:28023
- Kamiński, Brunan See Blinkowska, Maria, 86b:28015
- Keller, Gerhard Generalized bounded variation and applications to piecewise monotonic transformations. 86i:28024
- Kharasishvili, A. B. Quasi-invariant and invariant measures. (Russian. English and Georgian summaries) 86c:28021
- Kitchens, B. See Adler, R. L. et al., 86m:28009
- Kowalski, Zbigniew S. Finite generators of ergodic endomorphisms. 86i:28025
- Lemańczyk, Marius The rank of regular Morse dynamical systems. 86k:28014
- Lesigne, Emmanuel Sur la convergence ponctuelle de certaines moyennes ergodiques. (English summary) [On the pointwise convergence of some ergodic means] 86d:28019
- See also Conse, Jean-Pierre, 86i:28019
- Liu, Wen A property of expansions of real numbers. (Chinese. English summary) 86b:28016
- Losert, V. A class of sequences with a strong average property. 86c:28022
- See also Bellow, A., 86c:28034 and 86c:28035
- Maharam, Dorothy A formula for an equivalent invariant measure. 86c:28037
- Marcus, B. H. See Adler, R. L. et al., 86m:28009
- Martin-Reyes, F. J. See Atencia, E., 86f:28020
- Mathew, J. (with Nadkarni, M. G.) A measure preserving transformation whose spectrum has Lebesgue component of multiplicity two. 86b:28017
- Mauldin, R. Daniel See Graf, Siegfried et al., 86i:28021
- Nadkarni, M. G. A descriptive characterization of ergodic systems. 86b:28018
- See also Mathew, J., 86b:28017
- Ornstein, Donald S. (with Weiss, Benjamin) Any flow is an orbit factor of any flow. 86j:28013
- Rauzy, G. Ensembles à restes bornés. [Sets with bounded remainders] 86g:28024
- Rubinfeld, B. A. Measure-preserving trajectory isomorphism of groups of transformations with quasi-invariant measure. (Russian) 86h:28017
- Rudolph, Daniel J. Restricted orbit equivalence. 86f:28021
- See also del Junco, A., 86i:28022
- Sarabia, Luis A. An additive version of the ergodic theorem of von Neumann. (Spanish. English summary) (See 86g:00012c)
- Schmidt, Klaus D. Coding of Markov shifts. 86j:28014
- Sempi, Carlo On weakly mixing transformations on metric spaces. (Serbo-Croatian summary) 86h:28018
- Shimomura, Hiroaki Rotationally-quasi-invariant measures on the dual of a Hilbert space. 86c:28023
- Sinelshchikov, S. D. See Golodets, V. Ya., 86m:28010
- Smorodinsky, M. Block codes for Bernoulli shifts. 86i:28026
- Thomas, E. S. See Friedman, N. A., 86h:28016
- Troisi, Brunello See Abundo, M., 86g:28020
- Tomatsu, Shisuo Local uniformity of mixing transformations with infinite measure. 86h:28019
- Turek, Richard J. Approximation and ergodic theorems. 86c:28038
- Vakhaniya, Z. N. Integrability of the majorant of ergodic means. (Russian. English and Georgian summaries) 86f:28022
- Vekaler, A. S. An ergodic theorem in symmetric spaces. (Russian) 86k:28015
- Weiss, Benjamin See Ornstein, Donald S., 86j:28013
- Williams, S. C. See Graf, Siegfried et al., 86i:28021
- Wol, Janusz Analogues of the Denjoy-Young-Saks and Denjoy-Khinchine theorems in ergodic theory. (Russian summary) 86b:28019
- Wu, Xin Zhan An extremum problem and an entropy inequality. (Chinese) (Not in MR)
- Xu, Wen Yuan A proof of Papoulis' formula for the input-output entropy ratio in a linear system. (Chinese) (Not in MR)

secondary classifications (28D05)

- Akçoglu, M. A. (with Sucheston, Louis) On ergodic theory and truncated limits in Banach lattices. 86c:47044
- (with Sucheston, Louis) La monotonie uniforme des normes et théorèmes ergodiques. (English summary) [Uniform monotonicity of norms and ergodic theorems] 86k:46037
- Allouche, Jean-Paul Suites infinies à répétitions bornées. [Infinite sequences with bounded repetitions] (See 86b:11003)
- Alufahai, Imohimi C. Number theoretical weak Bernoulli transformations on the unit interval. 86h:11059
- Arnoux, Pierre (with Ornstein, Donald S.; Weiss, Benjamin) Cutting and stacking, interval exchanges and geometric models. 86h:58087
- Atalla, Robert E. Markov operators and invariant Baire functions. 86b:47010
- Auslander, Joseph (with Markley, Nelson) Graphic flows and multiple disjointness. 86m:54055
- Bakirov, N. K. A condition for uniform ergodicity for stationary sequences. (Russian) (See 86i:00007)
- Berbee, H. ★ Periodicity and absolute regularity. 86b:60056
- Blanchard, François (with Hansel, Georges) Un système non sofic quasi conjugué à un système sofic. (English summary) [A nonsoc system almost topologically conjugate to the full shift] 86h:54047
- Block, Louis (with Coven, Ethan; Mulvey, Irene; Nitecki, Zbigniew) Homoclinic and nonwandering points for maps of the circle. 86b:58101
- Block, A. M. Decomposition of dynamical systems on an interval. (Russian) 86d:54060
- Boyarsky, Abraham Continuity of invariant measures for families of maps. 86g:58084
- Coven, Ethan See Block, Louis et al., 86b:58101
- De Land, P. N. (with Shiflett, R. C.) Extreme doubly stochastic operators and characteristic functions. 86j:47043
- Eberlein, W. F. On retrogression in mean ergodic theory. 86m:47009

- Émilion, R. Théorie ergodique des opérateurs dans L^p . [Ergodic theory of operators in L^p] 86b:47010
(with Hachem, Bachar) A multiparameter strongly superadditive ergodic theorem. 86g:60040
- Fleischmann, K. Space-time mixing in a branching model. 86j:60190
- Franks, John M. Flow equivalence of subshifts of finite type. 86j:58078
- Garonas, E. (with Tempelman, A. A.) Ergodic theorems for homogeneous random measures and charges on groups. (Russian. English and Lithuanian summaries) 86c:60053
- Gelfer, I. S. (with Neimark, Yu. I.) Probability densities corresponding to piecewise-linear mappings with Markov partition. (Russian) 86f:58090
- Golosov, A. O. Small random perturbations of dynamical systems. (Russian) 86h:60120
- Goodson, G. R. On the spectral multiplicity of a class of finite rank transformations. 86c:47011
- Hachem, Bachar See Émilion, R., 86g:60040
- Hassel, Georges See Blanchard, François, 86h:54047
- Henas, E. On some ergodic theorems for von Neumann algebras. 86c:46056
- Hiai, Fumio Strong laws of large numbers for multivalued random variables. 86i:60016
- Jacobs, Konrad Ergodic theory and combinatorics. 86c:05002
- Jajte, R. A few remarks on the almost uniform ergodic theorems in von Neumann algebras. 86g:46098
- del Junco, A. (with Keane, Michael S.) On generic points in the Cartesian square of Chacón's transformation. 86g:54062
- Keane, Michael S. See del Junco, A., 86g:54062
- Khalil, Roshdi Contractive operators of certain spaces. 86j:47046
- Kushner, Harold J. Approximate invariant measures for the asymptotic distributions of differential equations with wide band noise inputs. 86g:93079
- Kwapień, Stanisław Linear functionals invariant under measure preserving transformations. 86f:46029
- Lambert, J. P. Quasi-Monte Carlo, low discrepancy sequences, and ergodic transformations. (See 86f:65015)
- Lang, Zs. Horocycles of a dynamical system on the plane. 86k:58098
- Lasota, A. (with Li, Tien Yien; Yorke, James A.) Asymptotic periodicity of the iterates of Markov operators. 86m:47010
- Lesigne, Emmanuel Résolution d'une équation fonctionnelle. (English summary) [Solution of a functional equation] 86k:22018
- Li, Tien Yien See Lasota, A. et al., 86m:47010
- Mañé, Ricardo On the Bernoulli property for rational maps. 86i:58082
- Markley, Nelson See Auslander, Joseph, 86m:54055
- Mayer, Dieter H. Approach to equilibrium: Kuzmin's theorem for dissipative and expanding maps. 86d:58068
- Miller, Harry I. On a class of functions. (Serbo-Croatian summary) 86c:26006
- Miyakoshi, Masaaki (with Shimbo, Masaru) An individual ergodic theorem for fuzzy random variables. 86j:28015
- Mulvey, Irene See Block, Louis et al., 86b:58101
- Neimark, Yu. I. See Gelfer, I. S., 86f:58090
- Nitecki, Zbigniew See Block, Louis et al., 86b:58101
- Ornstein, Donald S. See Arnoux, Pierre et al., 86h:58087
- Pets, Dénes Quantum ergodic theorems. 86h:46099
- Savichev, A. O. Criteria of strong laws of large numbers for random fields that are homogeneous in the wide sense. (Russian. English and Lithuanian summaries) 86j:60080
- Shiflett, R. C. See De Land, P. N., 86j:47043
- Shimbo, Masaru See Miyakoshi, Masaaki, 86j:28015
- Sucheston, Louis See Akcoglu, M. A., 86c:47044 and 86k:46037
- Szűcs, Stefan Sinaï's theorem and entropy compression. (Russian summary) 86f:94026
- Salenik, W. Absolutely continuous invariant measures for rational mappings of the sphere S^2 . (Russian summary) 86k:58076
- Tempelman, A. A. See Garonas, E., 86c:60053
- Weiss, Benjamin See Arnoux, Pierre et al., 86h:58087
- Yorke, James A. See Lasota, A. et al., 86m:47010
- 28D10 One-parameter continuous families of measure-preserving transformations**
- Berend, Daniel (with Bergelson, Vitaly) Jointly ergodic measure-preserving transformations. 86h:28020
- Bergelson, Vitaly See Berend, Daniel, 86h:28020
- Denker, Manfred (with Philipp, Walter) Approximation by Brownian motion for Gibbs measures and flows under a function. 86g:28025
- Mirotin, A. R. Invariant measures in locally compact semigroups with open translations. (Russian) 86a:28019
- Philipp, Walter See Denker, Manfred, 86g:28025
- Sato, Ryotaro On the ratio maximal function for an ergodic flow. 86h:28021
- Schmidt, Klaus D. Cohomology and the absence of strong ergodicity for ergodic group actions. 86k:28016
- Tempelman, A. A. Ergodic and mixing homogeneous spaces. (Russian) 86b:28020
- Weißkämper, Jürgen L'entropie topologique d'un groupe d'iteration. [Topological entropy of an iteration group] 86c:28024
- Zotov, I. Yu. A local ergodic theorem in symmetric spaces. (Russian) 86h:28022
- secondary classifications (28D10)
- Goroff, Daniel L. Hyperbolic sets for twist maps. 86m:58052
- Horinouchi, Sôichi See Sakai, Kouichi, 86c:54046
- del Junco, A. (with Rudolph, Daniel J.) ★ On ergodic actions whose self-joinings are graphs. 86i:28022
- Kawai, Hikaru (with Tye, S.-H. H.) Approach to chaos: universal quantitative properties of one-dimensional maps. 86d:58085
- Queffelec, Martine Étude spectrale de substitutions. (English summary) [Spectral properties of substitutions] 86b:11018
- Rauzy, G. Ensembles à restes bornés. [Sets with bounded remainders] 86g:28024
- Rudolph, Daniel J. See del Junco, A., 86i:28022
- Sakai, Kouichi (with Horinouchi, Sôichi) On compact transformation groups with discrete spectrum. 86c:54046
- Tye, S.-H. H. See Kawai, Hikaru, 86d:58085
- Williams, Susan Toeplitz minimal flows which are not uniquely ergodic. 86k:54062
- 28D15 General groups of measure-preserving transformations**
- Baggett, Larry Measures invariant under a linear group. 86i:28027
- Berend, Daniel Minimal sets on tori. 86i:28028
- Besuglyi, S. I. Some conditions of approximability of groups of automorphisms of a space with a measure. (Russian) 86d:28020
- Brown, Gavin (with Dooley, A. H.) Characterising ergodic measures. 86a:28020
- Dooley, A. H. See Brown, Gavin, 86a:28020
- Drinfel'd, V. G. Finitely-additive measures on S^2 and S^3 , invariant with respect to rotations. (Russian) 86a:28021
- Ganikhodjaev, N. N. Bernoulli actions of nonamenable groups. (Russian) 86c:28039
- Random walks along trajectories of groups of automorphisms of a Lebesgue space. I. (Russian) 86c:28025
- Kallman, Robert R. Uniqueness results for groups of measure preserving transformations. 86g:28026
- Moulin Ollagnier, Jean Densité de certaines mesures de probabilité ergodiques sur les espaces symboliques et groupes moyennables. (English summary) [Density of certain ergodic probability measures in symbolic spaces and amenable groups] 86c:28026
- Nerurkar, Mahesh G. Ergodic continuous skew product actions of amenable groups. 86m:28011
- Rudolph, Daniel J. Inner and barely linear time changes of ergodic \mathbb{R}^k actions. 86a:28022
- secondary classifications (28D15)
- Calderoni, P. (with Campanino, M.; Capocaccia, D.) A local limit theorem for a sequence of interval transformations. 86m:58085
- Campanino, M. See Calderoni, P. et al., 86m:58085
- Capocaccia, D. See Calderoni, P. et al., 86m:58085
- del Junco, A. (with Rudolph, Daniel J.) ★ On ergodic actions whose self-joinings are graphs. 86i:28022
- Rudolph, Daniel J. See del Junco, A., 86i:28022
- Savichev, A. O. (with Tempelman, A. A.) Ergodic theorems on mixing homogeneous spaces. (Russian. English and Lithuanian summaries) 86h:58089
- Shimano, Takashi The multiplicity of helices for a regularly increasing sequence of σ -fields. 86b:60060
- Tempelman, A. A. See Savichev, A. O., 86h:58089
- Zhang, Zhu Sheng Shift-invariant sets of endomorphisms. (Chinese) 86c:58045
- Zimmer, R. J. Ergodic theory, group representations, and rigidity. 86m:22014
- ★ Ergodic theory and semisimple groups. 86j:22014
- 28D20 Entropy and other invariants**
- Arsumanyan, V. A. An algebraic type of ergodic Markov shift. (Russian. Armenian summary) 86g:28027
- Białynicki-Birula, Iwo (with Madajczyk, J. L.) Entropic uncertainty relations for angular distributions. 86h:28023
- Boyarsky, Abraham See Friedman, Nathan, 86k:28017
- Brown, C. C. Entropy increase as a consequence of measure invariance. 86c:28040
- Butler, Roger (with Schmidt, Klaus D.) An information cocycle for groups of nonsingular transformations. 86i:28029
- Friedman, Nathan (with Boyarsky, Abraham) Entropy versus speed in ergodic Markov maps. 86k:28017
- Kociasewski, A. On the calculations of maximum entropy distributions having prescribed the moments. 86f:28023
- Madajczyk, J. L. See Białynicki-Birula, Iwo, 86h:28023
- (Milnor, John) See Sinaï, Ya. G., 86m:28012
- Nasu, Masakazu An invariant for bounded-to-one factor maps between transitive sofic subshifts. 86i:28030
- de Paly, T. On entropy-like invariants for dynamical systems. (German and Russian summaries) 86b:28021
- Parry, William (with Schmidt, Klaus D.) Invariants of finitary isomorphisms with finite expected code-lengths. 86b:28023
- (with Schmidt, Klaus D.) Natural coefficients and invariants for Markov-shifts. 86b:28022a
- Pesin, Ya. B. (with Pitakel', B. S.) Topological pressure and the variational principle for noncompact sets. (Russian. English summary) 86i:28031
- Pitakel', B. S. See Pesin, Ya. B., 86i:28031
- Schmidt, Klaus D. Invariants for finitary isomorphisms with finite expected code lengths. 86b:28022b
- See also Parry, William, 86b:28022a; 86b:28023 and Butler, Roger, 86i:28029
- Shimomura, Takashi Topological entropy and the pseudo-orbit tracing property. 86i:28032
- Sinaï, Ya. G. An answer to a question by J. Milnor. 86m:28012
- Thomas, Erik G. F. Invariant Danielli integrals. 86c:28027
- secondary classifications (28D20)
- Besuglyi, S. I. (with Golodets, V. Ya.) Groups of measure space transformations and invariants of outer conjugation for automorphisms from normalizers of type III full groups. 86c:46052
- Broudicou, Claude (with Gillot, Christian; Gillot, Geneviève) Variations d'entropie topologique d'une famille de transformations de l'intervalle unité, unimodales et

- linéaires par morceaux. (English summary) [Variation of topological entropy in a family of piecewise linear unimodal maps of the interval] **86f:58089**
- Friedman, N. A. (with Thomas, E. S.) Higher order sweeping out. **86b:28016**
- Gillet, Christian Emboîtement de suites de rotation d'un endomorphisme de $[0, 1]$. [Boxing of rotation sequences of an endomorphism of $[0, 1]$] **86m:58130**
- See also Broudiacou, Claude et al., **86f:58089**
- Gillet, Geneviève See Broudiacou, Claude et al., **86f:58089**
- Golodets, V. Ya. See Besugiy, S. I., **86e:46052**
- Herman, Michael-R. Sur les difféomorphismes du cercle de nombre de rotation de type constant. [On the diffeomorphisms of the circle that have a rotation number of constant type] **86b:58070**
- Hsu, Chieh Su (with Kim, Myun C.) Method of constructing generating partitions for entropy evaluation. **86k:58070**
- Keller, Gerhard On the rate of convergence to equilibrium in one-dimensional systems. **86k:58071**
- Kim, Myun C. See Hsu, Chieh Su, **86k:58070**
- Komorník, Josef See Komorníková, Magda, **86e:54025**
- Komorníková, Magda (with Komorník, Josef) Comparing measure theoretic entropy with topological entropy for noncompact spaces. (Russian and Slovak summaries) **86e:54025**
- Ledrappier, F. Quelques propriétés ergodiques des applications rationnelles. (English summary) [Some ergodic properties of rational maps] **86c:58091**
- Lind, D. A. The entropies of topological Markov shifts and a related class of algebraic integers. **86c:58092**
- Martínez, Servet A. Relating topological entropy to finite dynamical systems. **86k:54050**
- Mayer, Dieter H. Approach to equilibrium for locally expanding maps in \mathbb{R}^2 . **86d:58069**
- Mendes France, Michel Entropy of curves and uniform distribution. (See **86d:11002**)
- Michel, Horst Embedding set configuration spaces into those of Ruelle's point configurations. (French summary) **86k:82014**
- Rudolph, Daniel J. Restricted orbit equivalence. **86f:28021**
- Thomas, E. S. See Friedman, N. A., **86b:28016**
- Young, Lal Sang Dimension, entropy and Lyapunov exponents in differentiable dynamical systems. **86c:58094**
- Zdunik, Anna Entropy of transformations of the unit interval. **86i:58083**

28D99 None of the above, but in this section

- Aaronson, Jon The eigenvalues of nonsingular transformations. **86c:28041**
- Boyle, Mike (with Tuncel, Selim) Infinite-to-one codes and Markov measures. **86b:28024**
- Duponcheel, Luc Non-Archimedean (uniformly) continuous measures on homogeneous spaces. **86f:28024**
- Eigen, S. J. Ergodic Cartesian products à la triangle sets. **86g:28028**
- Flebig, U. R. A return time invariant for finitary isomorphisms. **86i:28033**
- Glasner, S. (with Rudolph, Daniel J.) Uncountably many topological models for ergodic transformations. **86h:28024**
- Jabłoński, M. The law of exponential decay for r -adic transformations. **86e:28028**
- (with Malczak, J.) The rate of convergence of iterates of the Frobenius-Perron operator for piecewise monotonic transformations. **86e:28029**
- Kharasishvili, A. B. On the existence of quasi-invariant measures. (Russian. English and Georgian summaries) **86d:28021**
- Malczak, J. See Jabłoński, M., **86e:28029**
- Osikawa, M. Flows associated with product type odometers. **86b:28025**
- Rudolph, Daniel J. See Glasner, S., **86h:28024**
- Sato, Ryotaro A local ergodic theorem for multiparameter superadditive processes. **86g:28029**
- Tuncel, Selim See Boyle, Mike, **86b:28024**
- Zaharopol, R. A zero-two theorem for a certain class of positive contractions in finite-dimensional L^p -spaces ($1 \leq p < +\infty$). **86i:28034a**
- Operator theorems on L^p -convergence to zero ($1 \leq p < +\infty$). **86i:28034b**

secondary classifications (28D99)

- Alexander, J. C. (with Yorke, James A.) Fat baker's transformations. **86c:58090**
- Boyle, Mike (with Tuncel, Selim) Infinite-to-one codes and Markov measures. **86b:28024**
- Connes, Alain (with Woods, E. J.) Approximately transitive flows and ITPFI factors. **86m:46062**
- Denker, Manfred Statistical decision procedures and ergodic theory. **86a:62072**
- Gutswiller, Martin C. The quantization of a classically ergodic system. **86a:81038**
- Hawkins, Jane Smooth T^n -valued cocycles for ergodic diffeomorphisms. **86g:58087**
- Lind, D. A. Applications of ergodic theory and soft systems to cellular automata. **86g:58128**
- Randol, Burton The behavior under projection of dilating sets in a covering space. **86g:58023**
- Schmidt, Klaus D. On recurrence. **86g:60042**
- Sullivan, Dennis Entropy, Hausdorff measures old and new, and limit sets of geometrically finite Kleinian groups. **86c:58093**
- Tuncel, Selim See Boyle, Mike, **86b:28024**
- Woods, E. J. See Connes, Alain, **86m:46062**
- Yorke, James A. See Alexander, J. C., **86c:58090**

28Exx Miscellaneous topics

28E05 Nonstandard measure theory [See also 03H05.]

- Loeb, Peter A. A functional approach to nonstandard measure theory. **86b:28026**

secondary classifications (28E05)

- Benninghofen, Benjamin Superinfinitesimals and the calculus of the generalized Riemann integral. **86g:26008**
- Cutland, Nigel J. Partially observed stochastic controls based on a cumulative digital read-out of the observations. (See **86g:93003**)

Duponcheel, Luc Non-Archimedean quasi-invariant measures on homogeneous spaces. **86f:22011**

Non-Archimedean improper measures on homogeneous spaces. **86m:11076**

Emmons, David W. Existence of Lindahl equilibria in measure theoretic economies without ordered preferences. **86d:90018**

28E10 Fuzzy measures [See also 03E72.]

- Bobylev, V. N. Support function for a fuzzy set and its characteristic properties. (Russian) **86f:28025**
- Höhle, Ulrich Fuzzy plausibility measures. **86a:28023**
- Loeb, Peter A. A nonstandard functional approach to Fubini's theorem. **86f:28026**
- Miyakoshi, Masaaki (with Shimbo, Masaru) An individual ergodic theorem for fuzzy random variables. **86j:28015**
- Sanchez, Elie See Wang, Pei Zhuang, **(86f:90003)**
- Shimbo, Masaru See Miyakoshi, Masaaki, **86j:28015**
- Wang, Pei Zhuang (with Sanchez, Elie) Hyperfields and random sets. (See **86f:90003**)
- Wang, Zhen Yuan Asymptotic structural characteristics of fuzzy measure and their applications. **86j:28016**
- Wang, Zi Xiao On the fuzzy measures and the measures of fuzziness for L -fuzzy sets. **86j:28017**

Fuzzy measures and measures of fuzziness. **86g:28030**

T -norms and measures of fuzziness. (Chinese. English summary) **86m:28013**

Weber, Siegfried Decomposable measures and measures of information for crisp and fuzzy sets. **86j:28018**

Measures of fuzzy sets and measures of fuzziness. **86f:28027**

Yu, Yan Dong Triangular norms and TNF σ -algebras. (Chinese. English summary) (Not in MR)

Zhao, Ru Hual The problem of interchanging the order of a limit and an (N) fuzzy integral. (Chinese) (Not in MR)

secondary classifications (28E10)

Tsutsu, Petre Belief functions and analogous fuzzy measures (with applications to Bayes' theorem). **86e:60005**

28E99 None of the above, but in this section

secondary classifications (28E99)

Bridges, Douglas Operator ranges, integrable sets, and the functional calculus. **86i:47020**

30-XX FUNCTIONS OF A COMPLEX VARIABLE (For analysis on manifolds, see 58-XX.)

30-01 Elementary exposition; textbooks

- Aleksandrov, I. A. (with Sobolev, V. V.) ★ Аналитические функции комплексного переменного. (Russian) [Analytic functions of a complex variable] **86c:30001**
- (Beardon, A. F.) See Kodaira, Kunihiko, **86b:30002**
- Bitsadze, A. V. ★ Основы теории аналитических функций комплексного переменного. (Russian) [Foundations of the theory of analytic functions of a complex variable] **86c:30001**
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- Dettman, J. W. ★ Applied complex variables. **86b:30001**
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- Lang, Serge ★ Complex analysis. **86j:30001**
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- Peschl, Ernst ★ Funktionentheorie. (German) [Function theory] **86b:30003**
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- (Sevenster, A.) See Kodaira, Kunihiko, **86b:30002**
- Shabat, B. V. ★ Введение в комплексный анализ. Часть I. (Russian) [Introduction to complex analysis. Part I] **86m:30001**
- Silverman, Richard A. ★ Complex analysis with applications. **86c:30004**
- Sobolev, V. V. See Aleksandrov, I. A., **86c:30001**

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- Krysicki, Włodzisław (with Włodarski, Lech) ★ Analiza matematyczna w zadaniach. Część II. (Polish) [Mathematical analysis in problems. Part II] **86c:00007**
- Makarenko, G. I. See Krasnov, M. L. et al., **86c:00007**
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- (Yankovskii, E.) See Krasnov, M. L. et al., **86c:00007**

30-02 Advanced exposition (research surveys, monographs, etc.)

- (Barsotti, Leo) See Zorn, Paul (Not in MR)
- Barth, K. F. (with Brannan, D. A.; Hayman, W. K.) Research problems in complex analysis. **86b:30004**
- Brannan, D. A. See Barth, K. F. et al., **86b:30004**
- (Černý, Ija) See Zalcman, Lawrence, **86d:30003**

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The Bieberbach conjecture: retrospective. 86a:30001

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(Lanckau, E.) See Complex analysis, 86h:30001a and 86h:30001b

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(Tonev, T. V.) See Zalcman, Lawrence, 86j:30002

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Baernstein, Albert, II Recent progress in Nevanlinna's theory of meromorphic functions. 86a:30048

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MacGregor, T. H. See Hallenbeck, D. J., 86c:30016

Prather, Carl Zeros of operators on functions and their analytic character. 86a:30049

30-03 Historical (must also be assigned at least one classification number from Section 01)

Pommerenke, Ch. The Bieberbach conjecture. 86c:30005

secondary classifications (30-03)

(Babenko, K. I.) See Keldysh, M. V., 86m:01074

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Chen, Xi Ru See Pu, Bao Ming et al., 86m:01064

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Lu, Jian Ke See Pu, Bao Ming et al., 86m:01064

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(Masar, H.) See Euler, Leonhard, 86k:01049

(Müller, H.) See Euler, Leonhard, 86k:01049

(Neumann, O.) See Euler, Leonhard, 86k:01049

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Pu, Bao Ming (with Zhang, Yan Chang; Lu, Jian Ke; Wang, Rou Huai; Zhang, Chu Bin; Ding, Xia Xi; Wang, Zi Kun; Qi, Min You; Wu, Hou Xin; Dang, Song Shi; Guo, You Zhong; Wang, Zhen Yu; Yang, Ming Zhu; Wu, Xue Mou; Chen, Xi Ru; Ren, De Lin) 50 years of Prof. Li Guo Ping's (Lee Kwok Ping) scientific activities. 86m:01064

(Purkert, W.) See Euler, Leonhard, 86k:01049

Qi, Min You See Pu, Bao Ming et al., 86m:01064

(Rauch, Harry E.) See Earle, Clifford J., 86h:01063

Ren, De Lin See Pu, Bao Ming et al., 86m:01064

(Schuhmann, E.) See Euler, Leonhard, 86k:01049

(Thiele, Rüdiger) See Euler, Leonhard, 86k:01049

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(Yushkevich, A. P.) See Euler, Leonhard, 86k:01049

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30-06 Proceedings, conferences, etc.

(Adnadjević, Dušan) See Symposium: Complex analysis and applications, 86d:30004

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secondary classifications (30-06)

(Lanckau, E.) See Complex analysis, 86h:30001a and 86h:30001b

(Power, S. C.) See Operators and function theory, 86f:47001

(Shaffer, Dorothy Browne) See Session: Topics in complex analysis, 86m:30007

(Trefethen, Lloyd N.) See Special issue: Numerical conformal mapping, 86m:30010

(Tutschke, Wolfgang) See Complex analysis and its applications to partial differential equations, 86f:00014; Complex analysis, 86h:30001a and 86h:30001b

Complex analysis ★ Complex analysis. 86h:30001a

Complex analysis and its applications to partial differential equations ★ Complex analysis and its applications to partial differential equations. 86f:00014

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Lancaster ★ Operators and function theory. 86f:47001

NATO Advanced Study Institute:

Operators and function theory ★ Operators and function theory. 86f:47001

Operators and function theory ★ Operators and function theory. 86f:47001

Session:

Topics in complex analysis ★ Topics in complex analysis. [Topics in complex analysis] 86m:30007

Special issue:

Numerical conformal mapping ★ Special issue on numerical conformal mapping. 86m:30010

30Axx General properties

30A05 Monogenic properties of complex functions (including polygenic and areolar monogenic functions)

Balk, M. B. Polyanalytic functions. (See 86h:30001a)

Campos, L. M. B. C. On a concept of derivative of complex order with applications to special functions. 86g:30001

secondary classifications (30A05)

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30A10 Inequalities in the complex domain

Coördas, George (with Stegenga, David A.) An extremal differential inequality for analytic functions. 86c:30006

Luecking, Daniel H. Forward and reverse Carleson inequalities for functions in Bergman spaces and their derivatives. 86g:30002

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Tomaszewski, Bogusław The best constant in a weak-type H^1 -inequality. 86c:30003

secondary classifications (30A10)

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Cotlar, Mischa (with Sadosky, Cora) Inégalités à poids pour les coefficients lacunaires de certaines fonctions analytiques. (English summary) [Weighted inequalities for lacunary coefficients of analytic functions] 86c:30067

De Souza, Geraldo Soares (with Golightly, G. O.) A proof of Abel's continuity theorem. 86h:30002

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Mityuk, I. P. Estimates of moduli of a function and its derivative. (Russian) 86j:30028

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30Bxx Series expansions

30B10 Power series (including lacunary series)

Abian, Alexander (with Hogben, L.; Johnston, E. H.) Laurent series obtained by long division. (Serbo-Croatian summary) 86j:30003

Alpár, L. On the change of variable of Laurent series. 86m:30002

De Souza, Geraldo Soares (with Golightly, G. O.) A proof of Abel's continuity theorem. 86h:30002

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Gnuschke, Dietlind On power series with Hadamard gaps. 86d:30006

Relations between certain sums and integrals concerning power series with Hadamard gaps. 86c:30004

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- Gvaradse, M. I. Dependence of the Taylor coefficients on the behavior of a function near the boundary. (Russian) **86g:30003**
- Henrici, P. Die Lagrange-Bürmannsche Formel bei formalen Potenzreihen. [The Lagrange-Bürmann formula in formal power series] **86d:30007**
- Hogben, L. See Ahlan, Alexander et al., **86j:30003**
- Ilyasov, M. I. (with Samandarov, È. G.) Explicit estimates in a Tauberian theorem. (Russian) Tajiki summary **86f:30001**
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- Milovanović, Igor Ž. See Vasić, P. M. et al., **(86g:55009)**
- Nautiyal, A. On the growth of a function analytic in the unit disc. **86a:30002**
- Omey, Edward See Embrechts, Paul, **86d:30005**
- Pavlović, Miroslav See Mateljević, M., **86d:30008**
- Pečarić, Josip E. See Vasić, P. M. et al., **(86g:55009)**
- Rajović, M. Taylor coefficients of a Lipschitz space of analytic functions. (Russian. Serbo-Croatian summary) **86j:30004**
- Samandarov, È. G. See Ilyasov, M. I., **86f:30001**
- Štěpánek, František On certain class of power series. **86m:30003**
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- Keogh, F. R. See Baggše, Türkân, **86c:30020**
- Laohakool, Vichian An arithmetic property of the Taylor coefficients of analytic functions with an application to transcendental numbers. **86c:11058**
- Miller, John Boris Series like Taylor's series. **86a:30061**
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- Solov'ev, A. A. Estimates in L^p of integral operators connected with spaces of analytic and harmonic functions. (Russian) **86j:47075**
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- Twomey, J. Brian On the absolute convergence of the Taylor series of close-to-convex functions on the unit circle. **86c:30017**
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30B20 Random power series

- Duren, Peter Random series and bounded mean oscillation. **86d:30009**
- Pulatov, A. K. A nonlocal Bitsadze-Samarakii boundary value problem. (Russian) (Not in MR)

30B30 Boundary behavior of power series, over-convergence

- Kralova, L. L. A Tauberian theorem of Fatou type for power series in the form of explicit inequalities. (Russian. Tajiki summary) **86c:30005**
- Rudin, Walter The variation of holomorphic functions on tangential boundary curves. **86b:30005**
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30B40 Analytic continuation

- Brennan, James E. The Cauchy integral and analytic continuation. **86d:30010**
- Jenkins, James A. A transitivity question for analytic continuation. **86i:30001**
- Suetin, S. P. An inverse problem for the m th row of a Padé table. (Russian) **86c:30007**

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- Heppner, E. (with Maxsein, Th.) Potenzreihen mit multiplikativen Koeffizienten. (English summary) [Power series with multiplicative coefficients] **86h:11003**

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30B50 Dirichlet series and other series expansions, exponential series
[See also 40-XX, 41-XX, 42-XX.]

- Dixit, K. K. On the λ -type of analytic functions of irregular growth defined by Dirichlet series. **86h:30003**

- Farkov, Yu. A. Faber-Erokhin basis functions in a neighborhood of several continua. (Russian) **86d:30011**

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- Sorokivskii, V. M. Growth of analytic functions represented by Dirichlet series. (Russian) **86f:30003**

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- Suetin, P. K. ★ Ряды по многочленам Фабера. (Russian) [Series of Faber polynomials] **86f:30004**

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secondary classifications (30B50)

- Agrawal, Purohottam Narain See Kasana, H. S., **86h:30052**

- Das, R. K. On order and type of an entire function represented by double Dirichlet series. **86c:30024**

- Gol'dberg, A. A. (with Ostrovskii, I. V.) Paley's effect for entire characteristic functions and entire functions represented by Dirichlet series. (Russian) **86m:30029**

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- Knowles, Ian W. On differential equations associated with Euler product expressions. **86i:11045**

- Korobelnik, Yu. F. Convolution equations in a complex domain. (Russian) **86j:30034**

- Kumar, Naresh See Vaish, S. K. et al., **86f:30026**

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On the term by term product of two entire Dirichlet series. II. **86m:30028**

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30B60 Completeness problems, closure of a system of functions

Alfaro García, Manuel (with Marcellán Español, Francisco) Fundamental sequences in the theory of orthogonal polynomials on lemniscates. (Spanish. English summary) (See **86h:00009a**)

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Marcellán Español, Francisco (with Boada Apilluelo, Cristina) Extension of scalar products with respect to lemniscates. (Spanish. English summary) (See **86h:00009a**)

See also Alfaro García, Manuel, (**86h:00009a**)

Vinnitskiĭ, B. V. Completeness of the system $\{f(\lambda_n z)\}$. (Russian) **86b:30007**

secondary classifications (30B60)

Adepoju, J. A. See Nasif, M., **86c:32028**

Dahrbashyan, M. M. On the Riesz basis of certain biorthogonal systems in the half-plane. **86b:30057**

Farkov, Yu. A. Approximation properties of Faber-Erokhin basis systems. (Russian) **86b:30068**

Haallinger, F. Polynomial expansions and expansions by Pincherle sequences in spaces of holomorphic functions. **86a:30082**

Nasif, M. (with Adepoju, J. A.) Effectiveness of product of simple sets of polynomials of two complex variables in polycylinders and in Faber regions. **86c:32028**

Rafaelyan, S. G. The basis property of certain biorthogonal systems in $L^2(-\sigma, \sigma)$ with weight. (Russian. English and Armenian summaries) **86k:46053**

30B70 Continued fractions [See also 11A55, 40A15.]

López Lagomasino, G. (with Vavilov, V. V.) Survey on recent advances in inverse problems of Padé approximation theory. **86j:30008**

Meyer, Burnett On continued fractions corresponding to asymptotic series. **86h:30008**

Rye, Egil (with Waadeland, Haakon) Reflections on value regions, limit regions and truncation errors for continued fractions. **86i:30003**

Vavilov, V. V. See López Lagomasino, G., **86j:30008**

Waadeland, Haakon See Rye, Egil, **86i:30003**

secondary classifications (30B70)

Adiga, Chandrashekar See Bhargava, Srinivasamurthy, **86k:11010**

Bhargava, Srinivasamurthy (with Adiga, Chandrashekar) Two generalizations of Ramanujan's continued fraction identities. **86k:11010**

Ducastelle, F. (with Turchi, P.; Trégila, G.) Band gaps and asymptotic behaviour of continued fraction coefficients. **86h:81142**

Ellacott, S. W. (with Saff, E. B.) Computing with the Faber transform. **86i:30044**

Gerl, Peter Continued fraction methods for random walks on N and on trees. **86c:60055**

Goulden, I. P. (with Jackson, D. M.) A combinatorial proof of a continued fraction expansion theorem from the Ramanujan notebooks. **86g:11008**

Iserles, Arieh Order stars and the structure of Padé tableaux. **86j:41015**

Jackson, D. M. See Goulden, I. P., **86g:11008**

Saff, E. B. See Ellacott, S. W., **86i:30044**

Suetin, S. P. An inverse problem for the m th row of a Padé table. (Russian) **86c:30007**

Trégila, G. See Ducastelle, F. et al., **86h:81142**

Turchi, P. See Ducastelle, F. et al., **86h:81142**

Znojil, M. Fixed-point perturbation theory and the potential $r^2 + \lambda r^2/(1 + gr^2)$. I. Analysis of convergence. **86i:81037a**

Fixed-point perturbation theory and the potential $r^2 + \lambda r^2/(1 + gr^2)$. II. Construction of the solutions. **86i:81037b**

30B99 None of the above, but in this section

secondary classifications (30B99)

(Bender, Edward A.) See Canfield, E. R., **86h:05009**

Canfield, E. R. Remarks on an asymptotic method in combinatorics. **86h:05009**

30Cxx Geometric function theory

(Shaffer, Dorothy Browne) See Session: Topics in complex analysis, **86m:30007**

Fairfield, Conn. ★ Topics in complex analysis. [Topics in complex analysis] **86m:30007**

Session:

Topics in complex analysis ★ Topics in complex analysis. [Topics in complex analysis] **86m:30007**

secondary classifications (30Cxx)

Strebel, Kurt ★ Quadratic differentials. **86a:30072**

30C10 Polynomials

Brickman, L. (with Rahman, Q. I.; Ruscheweyh, Stephan) On pairs of coefficients of bounded polynomials. **86a:30007**

Chan, T. N. (with Malik, Mohammad Abdul) On Erdős-Lax theorem. **86c:30009**

Dewan, K. K. Some inequalities for polynomials. (Serbo-Croatian summary) **86i:30004**

Frappier, Clément (with Rahman, Q. I.; Ruscheweyh, Stephan) Inequalities for polynomials with two equal coefficients. **86m:30008**

Langévin, Michel Géométrie autour d'un théorème de Bernstein. [Geometric interpretation of a theorem of Bernstein] **86j:30009**

Malik, Mohammad Abdul See Chan, T. N., **86c:30009**

Rahman, Q. I. See Brickman, L. et al., **86a:30007** and Frappier, Clément et al., **86m:30008**

Ruscheweyh, Stephan (with Varga, R. S.) On the minimum moduli of normalized polynomials. **86c:30007**

See also Brickman, L. et al., **86a:30007** and Frappier, Clément et al., **86m:30008**

Suffridge, T. J. Polynomials in function theory. (See **86m:30007**)

Varga, R. S. See Ruscheweyh, Stephan, **86c:30007**

secondary classifications (30C10)

Abian, Alexander (with Hogben, L.; Johnston, E. H.) Laurent series obtained by long division. (Serbo-Croatian summary) **86j:30003**

Alfaro García, Manuel (with Marcellán Español, Francisco) Summation formulas for orthogonal polynomials on lemniscates. (Spanish. English summary) (See **86g:00012b**)

Azis, Abdul On the zeros of a polynomial and its derivative. **86g:30008**

Baggöse, Türkân (with Keogh, F. R.) Some subordination relations. **86c:30020**

Bialas, S. Upper bounds for the abscissa of stability of a stable interval polynomial. (Russian summary) **86k:12003**

Fehér, János Bemerkungen über Iterierten von Polynomen. [Comments on iterates of polynomials] **86d:30038**

Govorov, N. V. (with Grushevskii, S. P.) Some metric properties of boundary values of functions analytic in the half-plane. (Russian) **86a:30052**

Grushevskii, S. P. See Govorov, N. V., **86a:30052**

Hogben, L. See Abian, Alexander et al., **86j:30003**

Iovanov, Miodrag The annulus of starlikeness for univalent functions. **86k:30012**

Johnston, E. H. See Abian, Alexander et al., **86j:30003**

Kasten, Volker (with Schmieder, Gerald) On convolutions of convex functions. **86k:30013**

Keogh, F. R. See Baggöse, Türkân, **86c:30020**

Kristiansen, G. K. Characterization of polynomials by means of their stationary values. **86h:12001**

Marcellán Español, Francisco See Alfaro García, Manuel, (**86g:00012b**)

Reichel, Lothar An asymptotically orthonormal polynomial family. **86c:30079**

Rubinstein, Zalman Remarks on a paper by A. Aziz. **86c:30009**

Schmieder, Gerald See Kasten, Volker, **86k:30013**

Smyth, C. J. Some results on Newman polynomials. **86i:11039**

Włodarczyk, Kazimierz Bernstein's theorem for polynomial maps of complex topological vector spaces. **86h:46076**

30C15 Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) {For algebraic theory, see 12D10; for real methods, see 26C10.}

Alfaro, Ma. Pilar (with Vigil, L.) Zeros of orthogonal polynomials relative to the unit circle. (Spanish) (See **86h:00009a**)

Anastassioulou, E. G. See Ioakimidis, N. I., **86g:30009**

Azis, Abdul On the zeros of a polynomial and its derivative. **86g:30008**

On the location of the zeros of certain composite polynomials. **86d:30013**

Boyancov, Borislav D. Sendov's conjecture on critical points of polynomials. (Bulgarian) **86c:30010**

(with Rahman, Q. I.; Szynal, Jan) On a conjecture of Sendov about the critical points of a polynomial. **86j:30010**

Brown, Robert F. A topological bound on the number of distinct zeros of an analytic function. **86d:30014**

de Bruin, Marcel G. Zeros of polynomials generated by 4-term recurrence relations. **86c:30008**

Dewan, K. K. (with Govil, N. K.) On the Eneström-Kakeya theorem. **86a:30008**

Evans, Ronald (with Stolarsky, Kenneth B.) A family of polynomials with concyclic zeros. II. **86d:30015**

Gawronski, Wolfgang (with Stadtmüller, Ulrich) On the zeros of Jonquière's function with a large complex parameter. **86a:30009**

Govil, N. K. See Dewan, K. K., **86a:30008**

Grzesiak, Maciej (with Jankowski, Wiktor) On zeros of a certain polynomial. **86k:30003**
 Helms, James A. A simple and direct proof of a bound on the zeros of a polynomial. **86j:30011**

Ioakimidis, N. I. (with Anastassioulou, E. G.) A new, simple approach to the derivation of exact analytical formulae for the zeros of analytic functions. **86g:30009**

Jankowski, Wiktor See Grzesiak, Maciej, **86k:30003**
 Kasandrova, Ivanka M. See Kostova, M. (Not in MR)

Knab, Otto Zur lokalen Werteverteilung von Exponentialpolynomen. [On local value distribution of exponential polynomials] **86h:30009**

Kostova, M. (with Kasandrova, Ivanka M.) Distribution of zeros of systems of polynomials generated by certain classes of entire functions. (Bulgarian. English and Russian summaries) (Not in MR)

Malik, Mohammad Abdul A remark on two famous theorems concerning polynomials. **86k:30006**

Odvirkov-Budko, B. I. Properties of zeros and uniqueness theorems for functions holomorphic in the disk. (Russian) **86g:30010**

Rahman, Q. I. See Boyanov, Borislav D. et al., **86j:30010**

Rubinstein, Zalman Remarks on a paper by A. Aziz. **86e:30009**

Ruiz Blasco, Francisco José (with Uri, Zenaida) A note on Rouché's theorem. (Spanish. English summary) (See **86h:00009a**)

Stadtmüller, Ulrich See Gawronski, Wolfgang, **86a:30009**

Stolarsky, Kenneth B. A family of polynomials with concyclic zeros. III. **86k:30004**

See also Evans, Ronald, **86d:30015**

Saynal, Jan See Boyanov, Borislav D. et al., **86j:30010**

Todorov, Pavel G. Über die Verteilung der Nullstellen von zwei assoziierten Klassen von ganzen und gebrochenen rationalen Funktionen. (Russian summary) [On the distribution of zeros of two associated classes of entire and fractional rational functions] (Not in MR)

Tudor, M. Gh. L'étude sur la distribution des zéros des fonctions analytiques. I. (Romanian summary) [A study of the distribution of zeros of analytic functions. I] **86d:30016**

L'étude sur la distribution des zéros des fonctions analytiques. II. (Romanian summary) [A study of the distribution of zeros of analytic functions. II] **86e:30010**

Uri, Zenaida See Ruiz Blasco, Francisco José, (**86h:00009a**)

Vigil, L. See Alfaro, Ma. Pilar, (**86h:00009a**)

Yu, Yuan Hong An algebraic criterion for all the zeros of the transcendental function $\text{Det}(a_{ij} + b_{ij}e^{-\lambda_j} - S_{ij})_{n \times n}$ to be the left half-plane. (Chinese) (Not in MR)

secondary classifications (30C15)

Alfaro, Ma. Pilar On the asymptotic behavior of the zeros of orthogonal polynomials. (Spanish. English summary) (See **86g:00012b**)

Anastassioulou, E. G. See Ioakimidis, N. I., **86j:30011**

van Asseche, Walter Asymptotic properties of orthogonal polynomials from their recurrence formula. I. **86h:33009**

Blasas, S. (with Garloff, J.) Convex combinations of stable polynomials. **86g:30021**

Cupello, Laura On the asymptotic position of the zeros of some entire functions. (Italian. English summary) **86h:30036**

Delsarte, Ph. (with Genin, Yves; Kamp, Y.) Application of the index theory of pseudodifferential functions to the Bistritz stability test. **86g:12003**

Dyson, M. M. A Brouwer type coincidence theorem and the fundamental theorem of algebra. **86i:55003**

Farmer, M. R. (with Loizou, G.) An algorithm for the computation of zeros of a special class of entire functions. **86f:65063**

Garloff, J. See Blasas, S., **86g:30021**

Genin, Yves See Delsarte, Ph. et al., **86g:12003**

Hanson, Bruce The zero distribution of holomorphic functions on the unit disc. **86m:30033**

Hering, Hermann Zum Fundamentalsatz der Algebra. [On the fundamental theorem of algebra] **86m:12003**

Horwitz, Alan L. (with Rubel, Lee A.) A uniqueness theorem for monic Blaschke products. **86m:30037**

Ioakimidis, N. I. (with Anastassioulou, E. G.) A modification of the Delves-Lyness method for locating the zeros of analytic functions. **86j:65031**

Kamp, Y. See Delsarte, Ph. et al., **86g:12003**

Laurintikas, Antanas Zeros of certain Dirichlet series. (Russian. French and Lithuanian summaries) **86e:11075**

Loizou, G. See Farmer, M. R., **86f:65063**

Petković, Miodrag S. (with Stefanović, Lidiya V.) The numerical stability of the generalised root iterations for polynomial zeros. **86a:65043**

Pommerenke, Ch. On uniformly perfect sets and Fuchsian groups. **86e:30044**

Ronkin, L. I. Functions of completely regular growth in a half plane. (Russian. English summary) **86g:30044**

Rubel, Lee A. See Horwitz, Alan L., **86m:30037**

Schmidt, Günther See Xi, Yu Geng, **86g:93073**

Shirokov, N. A. Traces of functions from $H^\infty(B^n)$ on some sets of hyperplanes. (Russian. English summary) **86j:46029**

Sobolev, S. L. Comportement asymptotique des racines des polynômes d'Euler. (English and Italian summaries) [Asymptotic behavior of the roots of Euler polynomials] **86h:55015**

Stefanović, Lidiya V. See Petković, Miodrag S., **86a:65043**

Stolarsky, Kenneth B. Zeros of exponential polynomials and "reductionism". **86e:11083**

Xi, Yu Geng (with Schmidt, Günther) A note on the location of the roots of a polynomial. **86e:93073**

30C20 Conformal mappings of special domains

Khatlashev, N. G. The Dirichlet boundary value problem for the Laplace equation in a strip with cuts. (Russian. English and Georgian summaries) **86h:30010**

Kloke, Helmut On the capacity of a plane condenser and conformal mapping. **86m:30009**

Kusunoki, Yukio A new proof of the Schiffer's identities on planar Riemann surfaces. **86j:30012**

Lesley, Frank David Conformal mappings of domains satisfying a wedge condition. **86a:30010**

Reda, Burton Conformal mapping of regions bounded by curvilinear polygons. **86j:30013**

Srebro, Uri Conformal reflections and meromorphic slit mappings. **86k:30005**

secondary classifications (30C20)

Beardon, A. F. Conformal automorphisms of plane domains. **86k:30053**

Klose, Helmut See Seidl, Albert, **86k:30007**

Owa, Shigeyoshi On the radius of convexity of analytic p -valent functions. **86a:30021**

Owen, David Rudyard An extension of the Schwarz-Christoffel theory with applications to two-dimensional ideal flow hydrodynamics. (German and Russian summaries) **86e:76015**

Seidl, Albert (with Klose, Helmut) Numerical conformal mapping of a towel-shaped region onto a rectangle. **86k:30007**

30C25 Covering theorems in conformal mapping theory

Beller, E. (with Hummel, J. A.) On the univalent Bloch constant. **86i:30005**

Hummel, J. A. See Beller, E., **86i:30005**

Lewandowski, Zdzisław Koebe sets for compact classes of functions that are holomorphic and univalent in the unit disc. (Polish) **86g:30011**

secondary classifications (30C25)

Mednykh, A. D. Nonequivalent coverings of Riemann surfaces with a prescribed ramification type. (Russian) **86c:30088**

30C30 Numerical methods in conformal mapping theory [See also 65E05.]

Fornberg, Bengt A numerical method for conformal mapping of doubly connected regions. **86b:30009**

Hough, D. M. Jacobi polynomial solutions of first kind integral equations for numerical conformal mapping. **86g:30012**

Klose, Helmut See Seidl, Albert, **86k:30007**

Kokkinos, C. A. See Papamichael, N., **86a:30011**

Papamichael, N. (with Kokkinos, C. A.) The use of singular functions for the approximate conformal mapping of doubly-connected domains. **86a:30011**

The treatment of singularities in orthonormalization methods for numerical conformal mapping. **86k:30006**

Seidl, Albert (with Klose, Helmut) Numerical conformal mapping of a towel-shaped region onto a rectangle. **86k:30007**

(Trefethen, Lloyd N.) See Special issue: Numerical conformal mapping, **86m:30010**

Wegmann, Rudolf An iterative method for conformal mapping.

von Wolfersdorf, L. Zur Unität der Lösung der Theodoreschen Integralgleichung der konformen Abbildung. (English and Russian summaries) [On the uniqueness of the solution to the Theodoresen integral equation of conformal mapping] **86g:30013**

Special issue:

Numerical conformal mapping ★ Special issue on numerical conformal mapping. **86m:30010**

secondary classifications (30C30)

Halao, George C. (with Kopp, Peter; Wendland, W. L.) Some applications of a Galerkin-collocation method for boundary integral equations of the first kind. **86h:65178**

Kaufman, Robert P. (with Wu, Jang Mei) Distances and the Hardy-Littlewood property. **86d:30031**

Kopp, Peter See Halao, George C. et al., **86h:65178**

Reichel, Lothar On polynomial approximation in the complex plane with application to conformal mapping. **86c:30086**

Tribolx, A. Une méthode numérique inverse pour l'équation de Laplace. Applications aux écoulements et à la génération automatique de maillage. (English summary) [An inverse numeric method to solve the Laplace equation. Applications to flow mapping and automatic mesh generation] **86m:65155**

Wendland, W. L. See Halao, George C. et al., **86h:65178**

Wu, Jang Mei See Kaufman, Robert P., **86d:30031**

30C35 General theory of conformal mappings

Barnard, Roger W. The omitted area problem for univalent functions. (See **86m:30007**)

Dezyat-skil, S. P. Quasiconformal mappings and variation of functions that are univalent in a circular annulus. (Russian) **86g:30014**

Duan, Jin Joe An application of Schwarz's lemma. **86i:30006**

Goldberg, A. A. Analytic functions mapping a disk on a disk. (Russian) **86a:30012**

Haruki, Hiroshi On a conformal-mapping property. **86a:30013**

Lewis, John L. On the minimum area problem. **86i:30007**

Minda, David The modulus of a doubly connected region and negatively curved metrics. **86c:30011**

Owa, Shigeyoshi See Srivastava, Hari M., **86m:30011**

Salmov, R. B. (with Slavutin, M. L.) Behavior of the derivative of a function realizing a conformal mapping near a corner point of the boundary of the domain. (Russian) **86i:30008**

Slavutin, M. L. See Salmov, R. B., **86i:30008**

Srivastava, Hari M. (with Owa, Shigeyoshi) A distortion theorem for a certain class of analytic functions. **86m:30011**

Zakharyan, V. S. A remark on functions with a finite integral of Dirichlet type. (Russian. Armenian summary) **86h:30011**

Zinsmeister, Michel Domaines réguliers du plan. [Regular plane domains] **86k:30008**

secondary classifications (30C35)

- Aksent'ev, L. A. The connection of the exterior inverse boundary value problem with the inner radius of the domain. (Russian) **86d:30084**
- Jenkins, James A. A transitivity question for analytic continuation. **86i:30001**
- Lesley, Frank David Conformal mappings of domains satisfying a wedge condition. **86a:30010**
- Reichel, Lothar An asymptotically orthonormal polynomial family. **86c:30079**
- Shcherbakov, A. A. Topological and analytic conjugation of noncommutative groups of germs of conformal mappings. (Russian. English summary) **86g:58083**
- Shiga, Hiroshige On analytic and geometric properties of Teichmüller spaces. **86c:32024**

30C40 Kernel functions and applications

- Khavinson, Dmitry On removal of periods of conjugate functions in multiply connected domains. **86b:30010**
- Ramadanov, I. (with Skwarczyński, M.) An angle in $L^2(C)$ determined by two plane domains. (Russian summary) **86f:30006**
- Saitoh, Saburo Uehara, Masahiro, **86i:30009**
- Skwarczyński, M. See Ramadanov, I., **86f:30006**
- Uehara, Masahiro (with Saitoh, Saburo) Some remarks for the weighted Szegő kernel functions. **86k:30009**

secondary classifications (30C40)

- Burbea, Jacob The higher order curvatures of weighted span metrics on Riemann surfaces. **86c:30094**
- Saitoh, Saburo Some isometrical identities in the wave equation. **86c:35019**
- Tomantschger, Kurt Walter On the transformation of Bergman kernels. **86i:35018**
- Wiegner, Jan J. O. Domains with finite-dimensional Bergman space. **86a:32040**

30C45 Special classes of univalent and multivalent functions (starlike, convex, bounded rotation, etc.)

- Ahuja, O. P. Certain generalizations of the Robertson functions. **86c:30011**
- On the radius problem of certain analytic functions. **86k:30010**
- Aksent'ev, L. A. (with Shabalin, P. L.) Conditions for univalence in star-shaped and convex domains. (Russian) **86g:30015**
- Aldihan, Naeela See Noor, Khalida Inayat et al., **86f:30010**
- Al-Madifer, Hailah See Noor, Khalida Inayat, **86i:30011**
- Aloboudi, Fatima M. See Noor, Khalida Inayat, **86c:30014**; **86f:30010** and **86i:30010**
- Andreev, V. V. (with Miller, Sanford S.) A subordination for strongly convex functions. **86a:30014**
- Anh, V. V. (with Tuan, P. D.) Meromorphic starlike univalent functions. **86d:30017**
- Aouf, M. K. On univalence of a class of bounded Robertson functions. **86j:30014**
- Avkhadiev, F. G. Method of locally homeomorphic extension in the theory of sufficient conditions for univalence. (Russian) **86c:30012**
- Baggöse, Türkân The radius of spiral-likeness of certain analytic functions. (Turkish summary) **86c:30012**
- Berman, Robert (with Silverman, Herb) Coefficient inequalities for a subclass of starlike functions. **86g:30016**
- Bhargava, G. P. (with Pandey, R. K.) The radius of starlikeness of certain analytic functions. **86g:30017**
- (with Pandey, R. K.) On the radius of starlikeness of some classes of regular functions. **86h:30012**
- See also Pandey, R. K., **86h:30021**
- Bhatia, B. L. See Rajasekaran, S., **86a:30023**
- Bogucki, Zbigniew (with Zderkiewicz, Józef) Sur la courbure des lignes de niveau et de leurs trajectoires orthogonales dans la classe $\Sigma_{\alpha, \lambda}^*$ des fonctions sigma-convexes d'ordre α et k -symétriques. [The curvature of level lines and of their orthogonal paths in the class $\Sigma_{\alpha, \lambda}^*$ of k -symmetric sigma-convex functions of order α] **86m:30012**
- Brown, Johnny E. Some sharp neighborhoods of univalent functions. **86a:30015**
- Burniak, Czesław (with Godula, Janusz) On functions angularly accessible in the direction of the imaginary axis. (Russian and Polish summaries) **86b:30011**
- Cai, Ke Ju Radii of starlikeness and convexity of certain classes of analytic functions. (Chinese. English summary) **86c:30013**
- Case, B. A. (with Quine, J. R.) Polygonal Bazilevič functions. (See **86m:30007**)
- Chen, Wen Zhong A special subclass of starlike functions. (Chinese. English summary) **86d:30018**
- Dashrath (with Vinodkumar) Radii of p -valence of certain analytic functions with negative coefficients. **86h:30013**
- See also Shukla, S. L., **86c:30028** and **86m:30016**
- Dimkov, G. M. See Starkov, V. V. (Not in MR)
- Drośda, Wiesława (with Szył, Anna; Szył, Jan) The Jenkins' type inequality for Bazilevič functions. **86c:30014**
- Fournier, Richard Some distortion theorems for a class of convex functions. **86h:30014**
- Godula, Janusz See Burniak, Czesław, **86b:30011**
- Golusina, E. G. Ranges of values of systems of functionals in certain classes of regular functions. (Russian) **86k:30011**
- Ranges of values of some functionals on classes of regular functions. (Russian) **86g:30018**
- Goodman, A. W. Convex functions of bounded type. **86a:30016**
- Grunsky, Helmut The coefficient problem for functions with positive real part in a finitely connected domain. **86c:30015**
- Gupta, Ved Parkash Convex class of starlike functions. **86h:30015**
- Hallenbeck, D. J. (with MacGregor, T. H.) Linear problems and convexity techniques in geometric function theory. **86c:30018**
- Hayman, W. K. On quasiconvex functions. **86h:30018**
- Hornblower, R. See Wilken, D. R., **86c:30030**
- Hu, Ke (with Pan, Yi Fei) The sections of odd univalent functions. **86m:30013**
- Iiev, Lyubomir G. Classical extremal problems for univalent functions. **86b:30012**
- Estimates for univalent functions. **86i:30009**
- Iovanov, Miodrag An extremal problem for univalent functions. **86c:30017**
- The annulus of starlikeness for univalent functions. **86k:30012**
- Jabłoński, Filip Franciszek (with Wesolowski, Andrzej) Estimates for some functionals in classes of functions with real coefficients. (Polish. English and Russian summaries) **86b:30013**
- Jakubowski, Zbigniew J. (with Majchraak, Wiesław) On functions realizing the maxima of two functionals at a time. **86h:30017**
- Juneja, O. P. See Mogra, M. L., **86c:30019**
- Kamitaki, József On some properties of the coefficients of regular functions defined by some integral formula. (Russian and Polish summaries) **86b:30014**
- Kapoor, G. P. (with Mishra, A. K.) a^* -families of analytic functions. **86c:30018**
- (with Mishra, A. K.) Starlike and spirallike integral operators. (Italian summary) **86g:30019**
- Kal, M. S. On a class of functions starlike with respect to the unit disc. **86f:30007**
- A subclass of close-to-star functions. **86a:30017**
- Kasten, Volker On close-to-convex trinomials. **86g:30020**
- (with Schmieder, Gerald) On convolutions of convex functions. **86k:30013**
- Keselić, G. M. The set of values of functions of Bazilevič's class. (Russian) **86b:30015**
- Koepf, Wolfram Close-to-convex functions and linear-invariant families. **86a:30018**
- Korobkova, I. K. See Zmorovich, V. A., **86i:30020**
- Kulkarni, S. R. See Thakare, N. K., **86d:30024**
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- Yanagihara, Hiroshi A Tauberian theorem for certain class of meromorphic functions. **86a:30050**
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- Buchwalter, H. (with Cassier, Gilles) La paramétrisation de Nevanlinna dans le problème des moments de Hamburger. (English summary) [Nevanlinna parametrization in the Hamburger moment problem] **86i:44005**
- Cargo, G. T. See Belna, C. L., **86a:30051**
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- Duduchava, R. V. (with Rodino, Luigi) The Riemann-Hilbert boundary value problem in a bicylinder. (Italian summary) **86m:32011**
- Fokas, A. S. (with Ablowitz, Mark J.) On the initial value problem of the second Painlevé transcendent. **86b:34011**
- Gladun, L. V. See Cherakli, Yu. I., **86a:45002**
- Hou, Zong Yi Haseman boundary value problems for certain classes of systems of elliptic first-order partial differential equations. (Chinese) **86j:35051**
- Kats, B. A. See Brennerman, M. Kh., **86j:42014**
- Knowles, Ian W. On differential equations associated with Euler product expressions. **86i:11045**
- Maier, F. F. See Zinov'ev, P. M., **86f:30018**
- Mandahavidse, G. F. Methods of the theory of analytic functions in the theory of elasticity. (See **86h:30001a**)

(with Tutschke, Wolfgang) Boundary value problems for nonlinear systems of differential equations in the plane. (Russian. English and Georgian summaries) **86d:35030**

- Musafarov, V. M. The Hilbert problem with a unitary coefficient matrix. (Russian. English summary) **86c:81089**
- Pandey, J. N. See Chaudhry, Muhammed Aslam, **86b:35019**
- Prüssdorf, S. Approximation methods for solving singular integral equations. (See **86h:30001a**)
- Rodin, Yu. L. The Cauchy problem for the Landau-Lifschitz equation on a finite interval. **86d:82006**
- The Riemann boundary problem on Riemann surfaces and the inverse scattering problem for the Landau-Lifschitz equation. **86g:82009**
- Rodino, Luigi See Duduchava, R. V., **86m:32011**
- Rüprich, Wolfgang Eine Lösungsmethode für das Randwert-Sprung-Problem für implizite partielle Differentialgleichungssysteme in der Ebene. [A solution method for the boundary value jump problem for systems of implicit partial differential equations in the plane] **86g:35046**
- Shukurov, Kh. R. Boundary value problems for a degenerate system of first-order equations. (Russian) **86m:35029**
- Tamrazov, P. M. See Aliev, T. G., **86k:30036**
- Tutschke, Wolfgang See Mandahavidse, G. F., **86d:35030**
- Wen, Guo Chun Some nonlinear boundary value problems for nonlinear elliptic systems of several first-order equations in a multiply connected domain. (Chinese. English summary) **86i:35051**
- Some nonlinear boundary value problems for nonlinear elliptic equations of second order in the plane. **86i:35053**
- Zinov'ev, P. M. (with Maier, F. F.) Conditions for univalence of symmetric functions in a strip and half-plane and their application. (Russian) **86f:30018**

30E99 None of the above, but in this section

- Rasulov, A. B. Representation of the manifold of solutions and investigation of the Cauchy problem for some systems of differential equations of general form with a singular line. (Russian. Tajiki summary) **86k:30051**
- secondary classifications (30E99)
- Lanckau, E. Solving of linear partial differential equations by using complex integral transforms. (See **86h:30001a**)
- Neshmetdinov, I. R. One-sided moduli of continuity and sharp estimates for harmonic functions. (Russian) **86f:31002**
- Petković, Ljiljana D. (with Petković, Miodrag S.) On the k th root in circular arithmetic. (German summary) **86g:65091**
- Petković, Miodrag S. See Petković, Ljiljana D., **86g:65091**
- Tamrazov, P. M. Strengthened contour-solid property for functions of Lipschitz class and the continuation of the derivative to the boundary. (Russian) **86a:30055**
- Tomaszewski, Bogusław The best constant in a weak-type H^1 -inequality. **86c:30003**

30Fxx Riemann surfaces

Strebel, Kurt ★ Quadratic differentials. **86a:30072**

30F10 Compact Riemann surfaces and uniformization [See also 14H15, 32G15.]

- Bers, Lipman An inequality for Riemann surfaces. **86h:30076**
- Mednykh, A. D. Nonequivalent coverings of Riemann surfaces with a prescribed ramification type. (Russian) **86c:30088**
- Nakagawa, Kenji On the orders of automorphisms of a closed Riemann surface. **86a:30073**
- Tretkoff, C. L. (with Tretkoff, M. D.) Combinatorial group theory, Riemann surfaces and differential equations. **86g:30055**
- Tretkoff, M. D. See Tretkoff, C. L., **86g:30055**
- Yakubov, E. Kh. Extremal quasiconformal mappings and classes of divisors on Riemann surfaces. (Russian) **86b:30066**

secondary classifications (30F10)

- Gotoh, Yasuhiro On BMO functions on Riemann surface. **86k:30043**
- Kerckhoff, Steven P. Earthquakes are analytic. **86m:57014**
- Masur, Howard Ergodic actions of the mapping class group. **86i:32044**
- Morgan, John W. On Thurston's uniformization theorem for three-dimensional manifolds. (See **86i:57002**)
- Zomorrodian, Reza Nilpotent automorphism groups of Riemann surfaces. **86d:20059**

30F15 Harmonic functions on Riemann surfaces

- Segawa, Shigeo (with Tada, Toshimasa) Martin compactifications and quasiconformal mappings. **86f:30047**
- Tada, Toshimasa See Segawa, Shigeo, **86f:30047**

secondary classifications (30F15)

- Nakai, Mitsuru (with Sario, Leo) Harmonic and relative harmonic dimensions. **86i:30048**
- Sario, Leo See Nakai, Mitsuru, **86i:30048**

30F20 Classification theory of Riemann surfaces

- Beardon, A. F. Conformal automorphisms of plane domains. **86k:30053**
- Brons, S. D. (with Tairova, V. G.) Construction of Riemann surfaces of class F_q^* . (Russian) **86g:30054a**
(with Tairova, V. G.) Construction of Riemann surfaces of class F_q^* . II. (Russian) **86g:30054b**
- Bujalance, Emilio Cyclic groups of automorphisms of nonorientable compact Riemann surfaces. (Spanish. English summary) **86h:30077**
(with Etayo Gordejuela, J. J.; Gamboa, J. M.) Hyperelliptic Klein surfaces. **86g:30057**
- Etayo Gordejuela, J. J. Klein surfaces with maximal symmetry and their groups of automorphisms. **86g:30058**
See Bujalance, Emilio et al., **86g:30057**
- Gamboa, J. M. See also Bujalance, Emilio et al., **86g:30057**
- Harju, Jarmo Absolute branch points on Riemann surfaces. **86f:30043**
- Järvi, Pentti On meromorphic functions continuous on the Stoilow boundary. **86a:30074**
- Lehto, O. Some recent developments in the theory of Teichmüller spaces. **86c:30089**
- Tairova, V. G. See Brons, S. D., **86g:30054a** and **86g:30054b**

secondary classifications (30F20)

- Doyle, Peter G. Random walk on the Speiser graph of a Riemann surface. **86b:58129**
- Earle, Clifford J. (with Fowler, Robert S.) Holomorphic families of open Riemann surfaces. **86m:32039**
- Fowler, Robert S. See Earle, Clifford J., **86m:32039**
- Halpern, Noemi On the infinite Nielsen extension of a torus. **86b:30068**
- Kuribayashi, Akikazu (with Kuribayashi, Izumi) A classification of compact Riemann surfaces of genus four. **86f:14014**
- Kuribayashi, Izumi See Kuribayashi, Akikazu, **86f:14014**
- Mednykh, A. D. Nonseparable coverings of Riemann surfaces with a prescribed ramification type. (Russian) **86c:30088**

30F25 Ideal boundary theory

- Nagasaka, Yukio Notes of Beurling's theorem. **86c:30090**
- Nakai, Mitsuru (with Sario, Leo) Harmonic and relative harmonic dimensions. **86i:30048**
- Sario, Leo See Nakai, Mitsuru, **86i:30048**
- Shiba, Masakazu The Riemann-Hurwitz relation, parallel slit covering map, and continuation of an open Riemann surface of finite genus. **86a:30075**

secondary classifications (30F25)

- Bikchantsev, I. A. The number of solutions of the Riemann boundary value problem on a noncompact Riemann surface. (Russian) **86c:30038**
- Järvi, Pentti On meromorphic functions continuous on the Stoilow boundary. **86a:30074**
- Nimura, M. A theorem of Picard type. **86c:30031**

30F30 Differentials on Riemann surfaces

- Marden, Albert (with Strebel, Kurt) The heights theorem for quadratic differentials on Riemann surfaces. **86a:30076**
(with Strebel, Kurt) On the ends of trajectories. **86f:30049**
- Minda, David The modulus of a doubly connected region and the geodesic curvature-area method. **86g:30059**
- Strebel, Kurt See Marden, Albert, **86a:30076** and **86f:30049**
- Zhang, Shun Yan The problem of the A-periods of a class of analytic differentials. (Chinese) **86c:30091**

secondary classifications (30F30)

- Bikchantsev, I. A. A boundary value problem of Hilbert type on a noncompact Riemann surface with a boundary. (Russian) **86a:30063**
(with Usmanova, S. G.) The Riemann boundary value problem in classes of generalized functions and generalized differentials on a noncompact Riemann surface. (Russian) **86a:30064**
- Kusunoki, Yukio A new proof of the Schiffer's identities on planar Riemann surfaces. **86j:30012**
- Kus'mina, G. V. The problem of moduli for families of curves in a circular annulus. (Russian) **86j:30026**
- Prikarpat-skii, A. K. (with Samoilenko, V. G.) Algebro-geometric integration of certain systems of ordinary differential equations on Riemann surfaces. (Russian) **86c:35145**
- Rohrlich, David E. Weierstrass points and modular forms. **86e:11032**
- Samoilenko, V. G. See Prikarpat-skii, A. K., **86c:35145**
- Shiba, Masakazu The Riemann-Hurwitz relation, parallel slit covering map, and continuation of an open Riemann surface of finite genus. **86a:30075**
- Solynin, A. Yu. The dependence of the problem of moduli for a family of some classes of curves on parameters. (Russian) **86h:30042**
- Tabak, Barbara A geometric characterization of harmonic diffeomorphisms between surfaces. **86g:58041**
- Usmanova, S. G. See Bikchantsev, I. A., **86a:30064**

30F35 Fuchsian groups and automorphic functions [See also 11Fxx, 20H10, 32Gxx, 32Nxx]

- Aulaskari, R. (with Lappan, P.) On additive automorphic and rotation automorphic functions. **86b:30067**
- Gusevskii, N. A. (with Zindinova, N. S.) A characterization of extended Schottky groups. (Russian) (Not in MR)
- Halpern, Noemi On the infinite Nielsen extension of a torus. **86b:30068**
- Kra, Irwin On lifting Kleinian groups to $SL(2, \mathbb{C})$. **86h:30078**
Bases for cusp forms for quasi-Fuchsian groups. **86k:30053**

Kravtsev, S. V. Metric and categorical properties of subsets of the limit set of a Fuchsian group. (Russian) **86c:30092**

Distribution of values of functions with an automorphic derivative. (Russian) **86f:30050**

Tsuji's estimate for the counting function of orbits of Fuchsian groups. (Russian) **86j:30065**

Lappan, P. See Aulaskari, R., **86b:30067**

Morozawa, Shunsuke (with Nakada, Masami) The Nielsen development and transitive points under a certain Fuchsian group. **86j:30066**

Näätänen, Marjatta On the stability of identification patterns for Dirichlet regions. **86k:30054**

Nakada, Masami See Morozawa, Shunsuke, **86j:30066**

Pommerenke, Ch. On uniformly perfect sets and Fuchsian groups. **86c:30044**

Prasad, P. Krishna Application of algebra in proving some results on discontinuous groups. **86f:30051**

Zindinova, N. S. See Gusevskii, N. A. (Not in MR)

secondary classifications (30F35)

- Ahlfors, Lars V. Old and new in Möbius groups. **86b:22018**
- Chibrikova, L. I. Solvability and application of a Carleman integral equation. (Russian) **86e:45002**
- Gusevskii, N. A. Schottky groups in space. (Russian) **86m:32040**
- Halpern, Noemi Moduli of plane domains. **86i:32043**
- Harju, Jarmo Absolute branch points on Riemann surfaces. **86f:30043**
- Katok, Svetlana Closed geodesics, periods and arithmetic of modular forms. **86j:11048**
- Kra, Irwin On the vanishing of and spanning sets for Poincaré series for cusp forms. **86b:30070**
- Lehner, J. (with Sheingorn, M.) Computing self-intersections of closed geodesics on finite-sheeted covers of the modular surface. **86e:11031**
- Phillips, Ralph S. (with Sarnak, P.) On the spectrum of the Hecke groups. **86j:11042**
- Sakan, Ken-ichi On extremal quasiconformal mappings compatible with a Fuchsian group with a dilatation bound. **86h:30041**
- Sarnak, P. See Phillips, Ralph S., **86j:11042**
- Scholl, A. J. Fourier coefficients of Eisenstein series on noncongruence subgroups. **86m:11028**
- Sheingorn, M. See Lehner, J., **86e:11031**
- Tukla, P. Quasiconformal extension of quasimetric mappings compatible with a Möbius group. **86f:30024**
Automorphic quasimeromorphic mappings for torsionless hyperbolic groups. **86k:30023**
- Varopoulos, N. Th. A characterisation of Fuchsian groups of convergent type. **86d:58122**
Groupes fuchsien de type fini. (English summary) [Finitely generated Fuchsian groups] **86m:11023**

30F40 Kleinian groups [See also 20H10.]

- Apanasov, B. N. Parabolic vertices and finiteness properties for Kleinian groups in n -dimensional space. (Russian) **86c:30093**
- Derevian, D. A. Criterion for discontinuity of a discrete group. (Russian) **86f:30052**
- Haas, Andrew Linearization and mappings onto pseudocircle domains. **86b:30069**
- Kra, Irwin On the vanishing of and spanning sets for Poincaré series for cusp forms. **86b:30070**
- Maskit, Bernard On free Kleinian groups. **86d:30073**
- Masumoto, Makoto Homomorphisms of finitely generated Kleinian groups. **86m:30048**

secondary classifications (30F40)

- Agard, Stephen A geometric proof of Mostow's rigidity theorem for groups of divergence type. **86b:22017**
- Brooks, Robert The spectral geometry of the Apollonian packing. **86k:58125**
- Molnár, Emil An infinite series of compact nonorientable 3-dimensional space forms of constant negative curvature. **86g:53047a**
Errata to: "An infinite series of compact nonorientable 3-dimensional space forms of constant negative curvature". **86g:53047b**
- Ohtake, Hiromi On Ahlfors' weak finiteness theorem. **86c:30038**
- Prasad, P. Krishna Application of algebra in proving some results on discontinuous groups. **86f:30051**
- Sullivan, Dennis Entropy, Hausdorff measures old and new, and limit sets of geometrically finite Kleinian groups. **86c:58093**

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- Burbea, Jacob The higher order curvatures of weighted span metrics on Riemann surfaces. **86c:30094**
- Cutillas Ripoll, Pascual Construction of certain function fields associated with a compact Riemann surface. **86a:30077**
- Fisher, Robert J., Jr. On the existence of principal bundle structures for compact Riemann surfaces of genus $g \geq 1$. **86a:30078**
- Hara, Masaru On Gamelin constants. **86b:30071**
(with Nakai, Mitsuru) Corona theorem with bounds for finitely sheeted disks. **86h:30079**
- Kulken, Kathryn (with Masterson, John T.) On the monodromy groups of lifted Euler equations. **86g:30060**
- Masterson, John T. See Kulken, Kathryn, **86g:30060**
- Nakai, Mitsuru The corona problem on finitely sheeted covering surfaces. **86b:30072**
See also Hara, Masaru, **86h:30079**

secondary classifications (30F99)

- Asken'ev, L. A. (with Elizarov, A. M.; Kinder, M. I.) Inverse boundary value problems for multiply connected domains on Riemann surfaces of genus zero. (Russian) **86h:30074**

- Aubert, Karl Egil Arithmetic on open Riemann surfaces. **86k:14020**
- Burger, Marc (with Colbois, Bruno) À propos de la multiplicité de la première valeur propre du laplacien d'une surface de Riemann. (English summary) [On the multiplicity of the first eigenvalue of the Laplacian of a Riemann surface] **86j:58149**
- Chavskii, G. G. A nonlinear conjugation problem on a Riemann surface in the case of a zero-homologous contour. (Russian. English summary) **86d:30066**
- Nonlinear problem of conjugation on a Riemann surface. (Russian. English summary) **86k:30048**
- Colbois, Bruno See Burger, Marc, **86j:58149**
- Elisarov, A. M. See Akseut'ev, L. A. et al., **86h:30074**
- Goldstein, Myron Uniform approximation and a problem of A. Stray. **86d:30059**
- Hempel, John Traces, lengths, and simplicity for loops on surfaces. **86c:32023**
- Ivanov, N. V. Algebraic properties of the Teichmüller modular group. (Russian) **86d:32023**
- Kashevskii, V. V. A nonlinear problem on a finite Riemann surface for piecewise-analytic functions. (Russian) (Not in MR)
- Kinder, M. L. See Akseut'ev, L. A. et al., **86h:30074**
- Kobayashi, Shōji Range sets and BMO norms of analytic functions. **86a:30054**
- Image areas and BMO norms of analytic functions. **86m:30038**
- Krushkal', S. L. Invariant metrics on spaces of closed Riemann surfaces. (Russian) **86j:32050**
- Lehner, J. (with Sheingorn, M.) Simple closed geodesics on $H^+/T(3)$ arise from the Markov spectrum. **86b:11033**
- Natanson, S. M. Spaces of real meromorphic functions on real algebraic curves. (Russian) **86h:14017**
- Neeman, Amnon The distribution of Weierstraas points on a compact Riemann surface. **86a:14014**
- Sato, Hiroki Limits of sequences of Riemann surfaces represented by Schottky groups. **86h:32035**
- Sheingorn, M. See Lehner, J., **86b:11033**
- Vainio, Juhani V. Conditions for the possibility of conformal sewing. **86d:30034**
- Yamashita, Shinji Functions of uniformly bounded characteristic on Riemann surfaces. **86c:30033**
- Zverovich, È. I. Construction of a field of algebraic functions corresponding to a given covering of a sphere. (Russian. English summary) **86g:14015**

30Gxx Generalized function theory

30G05 Non-Archimedean function theory [See also 12J25.]

secondary classifications (30G05)

- Bosch, Siegfried (with Güntzer, U.; Remmert, R.) ★Non-Archimedean analysis. **86b:32031**
- Güntzer, U. See Bosch, Siegfried et al., **86b:32031**
- Remmert, R. See Bosch, Siegfried et al., **86b:32031**
- Van der Poorten, A. J. p -adic methods in the study of Taylor coefficients of rational functions. **86j:11073**

30G20 Generalizations of Bers or Vekua type (pseudoanalytic, p -analytic, etc.)

- Akhmedov, Saidamir Akhmedovich On the dependence of a sequence of solutions of equations of generalized analytic functions on strong and weak convergence of coefficients. (Russian) **86c:30095**
- Bliev, N. K. ★Обобщенные аналитические функции в дробных пространствах. (Russian) [Generalized analytic functions in fractional spaces] **86j:30067**
- Klunnik, A. A. Investigation of the convergence of the interpolation process for an x^{2k} -analytic function of a complex variable. (Russian) **86a:30079**
- Makatsariya, G. T. Some estimates for generalized analytic functions and theorems of Liouville type. (Russian. English and Georgian summaries) **86i:30049**
- Theorems of Liouville type for generalized analytic functions. (Russian. English and Georgian summaries) **86c:30045**
- Radshabov, N. R. See Rasulov, A. B., **86j:30068**
- Rasulov, A. B. (with Radshabov, N. R.) Representation of a manifold of solutions in terms of analytic functions for a linear system of higher-order partial differential equations with a singular line. (Russian. Tajiki summary) **86j:30068**
- Safarov, D. Kh. An analogue of the Moisil-Theodoresco system. (Russian) **86c:30096**
- Tutschke, Wolfgang Initial value problems with generalized analytic functions as initial functions. (See **86i:00013**)
- Withalm, Cl. Über einen Integraloperator für pseudoholomorphe Funktionen modulo eines Hauptzeugendensystems. (English summary) [On an integral operator for pseudoholomorphic functions modulo a main generating system] **86k:30055**

secondary classifications (30G20)

- Arushanyan, Z. A. (with Grigoryan, B. V.) A generalization of the Rudin-Carleson theorem. (Russian. Armenian summary) **86i:35027**
- Bafzaev, S. The maximum principle for the modulus and gradient of a solution for quasilinear elliptic equations. (Russian. Tajiki summary) **86i:35015**
- Begehr, H. Boundary value problems for analytic and generalized analytic functions. (See **86h:30001a**)
- Čanak, M. Randwertaufgabe von Hilbert-Typus für die p -analytischen Funktionen und die Methode der Fourierschen Transformation. (Serbo-Croatian summary) [Boundary value problem of Hilbert type for the p -analytic functions and the method of Fourier transformation] **86g:30051**
- Schwarzsche Randwertaufgabe für eine Klasse der verallgemeinerten analytischen Funktionen. (Serbo-Croatian summary) [A Schwarz boundary value problem for a class of generalized analytic functions] **86j:30060**
- Davydova, L. V. The weak Harnack inequality for quasilinear elliptic equations. (Russian) **86g:35023**

- Dashraev, A. D. Structure of the solutions of certain first-order systems. (Russian) **86g:35042**
- Goman, O. G. Representations of the general solution of equations of nonaxisymmetric motion of a viscous incompressible fluid by means of p -analytic functions. (Russian. English summary) **86a:76021**
- Grigoryan, B. V. See Arushanyan, Z. A., **86i:35027**
- Heersink, Rudolf Zur Charakterisierung spezieller Lösungsdarstellungen für elliptische Gleichungen. [On the characterization of the representations of special solutions for elliptic equations] **86d:35039**
- Hou, Zong Yi Haseman boundary value problems for certain classes of systems of elliptic first-order partial differential equations. (Chinese) **86j:35051**
- Huang, Si Xun The Carleman problem for first-order linear elliptic systems. (Chinese) **86f:35070**
- Mikhailov, L. G. Formulas for the representation of solutions of some systems of partial differential equations with several independent variables. (Russian) **86a:35028**
- Obolashvili, E. I. Some applications of generalized analytic functions in the shell theory. (See **86h:30001a**)
- Radshabov, N. R. A method of representing a manifold of solutions of certain second-order linear elliptic equations on the plane. (Russian. Tajiki summary) **86c:35039**
- Rakhmatullayev, A. Kh. General solution of a linear complex second-order equation with an isolated singularity of the coefficient. (Russian) **86g:35047**
- Tutschke, Wolfgang Solution of the Cauchy problem in classes of functions that are three-dimensional generalizations of generalized analytic functions. (Russian) **86k:35009**
- Vinogradov, V. S. Elliptic systems in the plane. (See **86h:30001a**)

30G30 Other generalizations of analytic functions (including abstract-valued functions)

- Baratta, Maria Antonietta Holomorphic, antiholomorphic functions and point transformations in the plane. (Italian. English summary) **86d:30074**
- Bshouty, D. (with Hengartner, W.) Linear operators on univalent matrix functions. **86c:30061**
- Eliseev, V. I. (with Fokht, A. S.) Methods of the theory of functions of a complex space variable. (Russian) **86i:30050**
- Fokht, A. S. See Eliseev, V. I., **86i:30050**
- Hengartner, W. See Bshouty, D., **86g:30061**
- Jamukauskas, Algimantas Mappings harmonic in the sense of M. A. Lavrent'ev. (Russian) **86b:30073**
- Maksimov, V. M. A formal theory of harmonic equations and polynomials relative to commutative algebras. (Russian) **86d:30075**
- Mikhailov, L. G. Some nonlinear generalized Cauchy-Riemann systems. (Russian. Tajiki summary) **86g:30062**
- Ransford, T. J. Interpolation and extrapolation of analytic multivalued functions. **86c:30046**

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- Ashmyanskii, V. V. Boundary value problems for an eight-dimensional analogue of the Cauchy-Riemann system. (Russian) **86b:35047**
- Aupetit, Bernard (with Zraïbi, Abdelwahab) Distribution des valeurs des fonctions analytiques multiformes. (English summary) [Value distribution of multiform analytic functions] **86m:46046**
- Dimiev, S. Fonctions presque holomorphes. [Almost holomorphic functions] **86h:53032**
- Dyakarev, Yu. M. (with Katsnel'son, V. È.) Multiplicative and additive Stieltjes classes of analytic matrix-valued functions, and interpolation problems connected with them. III. (Russian) **86a:30056**
- Grigor'ev, Yu. M. (with Naumov, V. V.) Approximation theorems for a Moisil-Theodoresco system. (Russian) **86j:30055**
- Ilievski, Borko The Lagrange method of variation of constants in the case of an n th order areolar linear differential equation. (Macedonian. French summary) **86m:34010**
- Katsnel'son, V. È. See Dyakarev, Yu. M., **86a:30056**
- Naumov, V. V. See Grigor'ev, Yu. M., **86j:30055**
- Nikić, M. GC-functions. (Serbo-Croatian summary) **86k:32005**
- Orlov, S. A. Parametrization of limit matrix disks analytically depending on a parameter. (Russian) **86c:30051**
- Tonev, T. V. Generalized-analytic coverings in the maximal ideal space. **86a:46060**
- Tsekanovskii, È. R. Extension of entire matrix-functions. (Russian) **86a:47019**
- Yuditskii, P. M. Reconstruction of a j -contracting analytic matrix-function from principal values of its j -form and the related problem of "interpolation". (Russian) **86m:47057**
- Zraïbi, Abdelwahab See Aupetit, Bernard, **86m:46046**

30G35 Functions of hypercomplex variables and generalized variables

- Baratta, Maria Antonietta Quaternion functions and conformal mappings. (Italian. English summary) **86h:30080**
- Bejancu, A. (with Gheorghiev, Gh.) On a hypercomplex analysis on hypercomplex vector spaces. (French summary) **86j:30069b**
- Brackx, Freddy (with Pincket, Willy) A Bochner-Martinelli formula for the biregular functions of Clifford analysis. **86d:30076**
- Gheorghiev, Gh. On hypercomplex structures and Pompeiu differential operator. (French summary) **86j:30069a**
- The operator of D. Pompeiu applied to functions on noncommutative weakly associative algebras. (Romanian) (See **86j:35002**)
- See also Bejancu, A., **86j:30069b**
- Habetha, K. Funktionentheorie in Algebren. [Function theory in algebras] **86a:30080**
- Function theory in algebras. (See **86h:30001a**)
- Inaida, Jirō On the regularity of functions. (Japanese) (Not in MR)
- Jotov, O. Quaternion series and functions. (Macedonian. English summary) **86m:30049**
- Kustaanheimo, Paul See Lounesto, Pertti, **86d:30077**

- Lounesto, Pertti (with Kustaanheimo, Paul) Spinor function theory. 86d:30077
- Pincket, Willy See Brackx, Freddy, 86d:30076
- Pu, De Qian Functions of doubly complex variables. I. (Chinese) 86g:30063
- Qin, Guo Guang On the calculus of pansystem logic. II. Generalized analytic hypercomplex functions. (Chinese. English summary) 86i:30051
- Pansystem logic calculus. III. Some properties of generalized analytic hypercomplex functions. (Chinese. English summary) 86j:30070
- Riassa, Giovanni Battista Theorems of conformal mappings and quaternions. (Italian. English summary) 86i:30052
- Rosulest, M. N. Fonctions monogènes sur des algèbres commutatives. Monogénéité et fonctions régulières. [Monogenic functions on commutative algebras. Monogeneity and regular functions] 86f:30053
- Ryan, John Extensions of Clifford analysis to complex, finite-dimensional, associative algebras with identity. 86d:30078
- Duality in complex Clifford analysis. 86j:30071
- Somman, Y. Plane elliptic systems and monogenic functions in symmetric domains. 86e:30047
- Stefmashuk, N. T. Some properties of functions that are monogenic in the sense of V. S. Fedorov. (Russian) 86f:30054
- secondary classifications (30G35)
- Abtkoff, W. The bounded model for hyperbolic 3-space and a quaternionic uniformization theorem. 86a:32043
- Ahlfors, Lars V. Möbius transformations and Clifford numbers. 86g:20065
- Gürsey, Fesa (with Tze, Hsiung Chia) Quaternion analyticity and conformally Kählerian structure in Euclidean gravity. 86d:83020
- Melamud, E. Ya. A Nevanlinna-Pick boundary value problem for J -expanding matrix functions. (Russian) 86a:30070
- Ryan, John Hilbert modules with reproducing kernels within complex Clifford analysis. 86j:46030
- Shpil'ker, G. L. Hypercomplex solutions of the Maxwell equations. (Russian) 86j:78006
- Tse, Hsiung Chia See Gürsey, Fesa, 86d:83020

30G99 None of the above, but in this section

- Gilbert, R. P. Recent results and developments in generalized hyperanalytic function theory. (See 86h:30001a)
- González, Mario O. Area theorems for nonanalytic univalent functions. 86c:30097
- Miller, John Boris Series like Taylor's series. 86a:30081

secondary classifications (30G99)

- Nieto-Vesperinas, Manuel On the representation of two-dimensional scalar wave fields in the complex plane. 86c:35037
- Püngel, Jürgen ★ Lösungsdarstellungen für partielle Differentialgleichungen in Differentialringen. (German) [Representations of solutions for partial differential equations in differential rings] 86g:35043
- Rasulov, A. B. Representation of the manifold of solutions and investigation of the Cauchy problem for some systems of differential equations of general form with a singular line. (Russian. Tajiki summary) 86k:30051
- Wildenhain, Günther Die feine Topologie der Potentialtheorie und ihre Anwendung in der komplexen Funktionentheorie. [The fine topology in potential theory, and its application in complex function theory] 86b:31016

30H05 Spaces and algebras of analytic functions [See also 32E25, 46Exx, 46J15.]

- Arazy, Jonathan (with Fisher, Stephen David) The uniqueness of the Dirichlet space among Möbius-invariant Hilbert spaces. 86j:30072
- Brown, Leon (with Shields, Allen L.) Cyclic vectors in the Dirichlet space. 86d:30079
- Fisher, Stephen David See Arazy, Jonathan, 86j:30072
- Fishman, K. Interpolation of linear operators in spaces of analytic functions. 86b:30074
- Haslinger, F. On some new bases in spaces of holomorphic functions. 86c:30098
- Polynomial expansions and expansions by Pincherle sequences in spaces of holomorphic functions. 86a:30082
- Jörcke, Burglind (with Khavin, V. P.) Equivalent norms in L^p -spaces of analytic functions and free interpolation of harmonic functions. (Russian. English summary) 86d:30080
- Khavin, V. P. See Jörcke, Burglind, 86d:30080
- Khrstova, M. S. On some isomorphisms realized by operators acting in spaces of analytic functions. (Bulgarian. English and Russian summaries) 86d:30081
- Shields, Allen L. See Brown, Leon, 86d:30079
- Vinogradov, S. A. Analogues of L. Carleson's embedding theorem for some spaces of analytic functions. (Russian. English summary) 86e:30048

secondary classifications (30H05)

- Anderson, James Milne (with Clunie, J.) Isomorphisms of the disc algebra and inverse Faber sets. 86d:30058
- Antonino Andréu, José A. (with Romaguera, S.) A short proof of the Cima-Wogen $L(f) = \text{circle}$ theorem. 86f:30032
- Arazy, Jonathan (with Fisher, Stephen David) Some aspects of the minimal, Möbius-invariant space of analytic functions on the unit disc. 86m:46024
- Attie, K. R. M. Analytic multipliers of Bergman spaces. 86g:46039
- Behrens, Michael Frederick Interpolation and Gleason parts in L -domains. 86b:46079
- Berman, Robert (with Brown, Leon; Cohn, William) Cyclic vectors of bounded characteristic in Bergman spaces. 86e:46018
- Bourgain, J. The dimension conjecture for polydisc algebras. 86j:46057
- Bronshteln, M. D. Spaces of Gevrey type with an integral metric. (Russian) 86b:46040
- Brown, Leon (with Cohn, William) Some examples of cyclic vectors in the Dirichlet space. 86j:30043

- See also Berman, Robert et al., 86e:46018
- Carmona Doménech, J. J. The closure in Lip_α norms of rational modules with three generators. 86j:30054
- Clunie, J. See Anderson, James Milne, 86d:30058
- Cohn, William See Berman, Robert et al., 86e:46018 and Brown, Leon, 86j:30043
- Deeb, Waleed (with Younis, Rahman) On the extreme points of quotients of L^∞ by Douglas algebras. 86a:46061
- Dshvarshelavili, I. A. A Fréchet space. (Russian. English and Georgian summaries) 86k:46032
- Eckmann, Jean-Pierre (with Wittwer, Peter) ★ Computer methods and Borel summability applied to Feigenbaum's equation. 86m:58129
- El-Gebelly, Mohamad (with Wolfe, John) Isometries of the disc algebra. 86j:46058
- Fisher, Stephen David See Arazy, Jonathan, 86m:46024
- Forelli, Frank Uniqueness of representing measures. 86c:46061
- Gamelin, T. W. Weak compactness of representing measures for $R(K)$. 86a:46057
- Ibadov, I. V. See Napalkov, V. V., 86h:46066
- Jevtić, M. Sous-espaces $H_E^{p,q,\alpha}$ des espaces $H^{p,q,\alpha}$ de fonctions holomorphes. (English summary) [Subspaces $H_E^{p,q,\alpha}$ of spaces $H^{p,q,\alpha}$ of holomorphic functions] 86i:46026
- Subspaces $H_E^{p,q,\alpha}$ of mixed-norm spaces $H^{p,q,\alpha}$ of holomorphic functions. (Serbo-Croatian summary) 86h:46042
- Kanjlin, Yüchil On the algebra of absolutely convergent disk polynomial series. 86k:46061
- Kar'min, Yu. A. On a polynomial basis in some spaces of analytic functions. 86j:46028
- Khavinson, Dmitry Annihilating measures of the algebra $R(X)$. 86d:46048
- Kitover, A. K. Weighted composition operators in spaces of analytic functions. (Russian. English summary) 86j:47047
- Kobayashi, Shōji Range sets and BMO norms of analytic functions. 86a:30054
- Madgerova, Andreana S. Some homogeneous algebras of complex-valued functions on the torus and their isomorphisms. 86b:46080
- Matešević, M. (with Pavlović, Miroslav) L^p -behaviour of the integral means of analytic functions. 86d:30008
- (with Pavlović, Miroslav) On Hardy-Lipschitz spaces. (Serbo-Croatian summary) 86h:46043
- Masur, T. Spectral properties of automorphisms of the unit disc. 86k:47031
- Meril, A. Fonctionnelles analytiques à porteur non borné sur C . [Analytic functionals with unbounded carriers on C] 86h:46070
- Napalkov, V. V. (with Ibadov, I. V.) Systems of convolution equations in a class of analytic functions. (Russian. English and Azerbaijani summaries) 86h:46068
- Ortega Aramburu, Joaquín Ma. Algebra of holomorphic functions on the disk that are extendable at a point along the nontangent compact sets. (Spanish. English summary) 86a:46067
- Patterson, L. A. See Siscrick, W. C., 86i:30035
- Pavlović, Miroslav See Matešević, M., 86d:30008 and 86h:46043
- Rachinov, I. (with Rachinov, R. I.) Linear operators acting in spaces of analytic functions and commuting with the $E_{\alpha,\beta}$ operator. (Russian) 86f:47022
- Rachinov, R. I. See Rachinov, I., 86f:47022
- Rajović, M. Taylor coefficients of a Lipschitz space of analytic functions. (Russian. Serbo-Croatian summary) 86j:30004
- Romaguera, S. See Antonino Andréu, José A., 86f:30032
- Ruscheweyh, Stephan Some aspects of convolution duality of analytic functions. (See 86i:30013)
- Siscrick, W. C. (with Patterson, L. A.) A linear metric space of entire functions. 86i:30035
- Sundberg, Carl $H^\infty + \text{BUC}$ does not have the best approximation property. 86a:46065
- Verbitskii, I. E. Multipliers in spaces with "fractional" norms, and inner functions. (Russian) 86k:30041
- Volfberg, A. L. Constructive proof of the Marshall-Chang theorem. (Russian. English summary) 86j:46059
- Wittwer, Peter See Eckmann, Jean-Pierre, 86m:58129
- Wojtaszczyk, P. The Banach space H_1 . 86b:46039
- Wolfe, John See El-Gebelly, Mohamad, 86j:46058
- Younis, Rahman See Deeb, Waleed, 86a:46061
- Zabullonis, A. An imbedding operator in spaces of analytic functions. (Russian. English and Lithuanian summaries) 86d:30055a
- A differential operator in spaces of analytic functions. (Russian. English and Lithuanian summaries) 86d:30055b

31-XX POTENTIAL THEORY (For probabilistic potential theory, see 60J45.)

31-01 Elementary exposition; textbooks

- Brelot, M. Exemples de renouvellement par la topologie de quelques questions d'analyse. [Examples of some questions of analysis renewed by topology] (See 86d:30016)

secondary classifications (31-01)

- Janakulskas, Algimantas ★ Аналитические и гармонические функции многих переменных. (Russian) [Analytic and harmonic functions of several variables] 86i:32001

31-02 Advanced exposition (research surveys, monographs, etc.)

- Aronszajn, Nachman (with Creese, Thomas M.; Lipkin, Leonard J.) ★ Polyharmonic functions. 86g:31001

Bauer, Helms Zum heutigen Bild der Potentialtheorie. [On the current state of potential theory] 86g:31002

Harmonic spaces—a survey. 86j:31001

Creese, Thomas M. See Aronaszajn, Nachman et al., 86g:31001

(Gerlach, E.) See Aronaszajn, Nachman et al., 86g:31001

Kesel'man, D. G. On some problems of Choquet theory connected with potential theory. (See 85m:00006)

Lipkin, Leonard J. See Aronaszajn, Nachman et al., 86g:31001

Lukel, Jaroslav Some old and new applications of Choquet theory in potential theory. (See 85m:00006)

secondary classifications (31-02)

Dellacherie, Claude (with Meyer, P.-A.) ★ Probabilités et potentiel. Chapitres IX à XI. (French) [Probability and potential. Chapters IX–XI] 86b:60003

Meyer, P.-A. See Dellacherie, Claude, 86b:60003

31-03 Historical (must also be assigned at least one classification number from Section 01)

secondary classifications (31-03)

(Babenko, K. I.) See Keldysh, M. V., 86m:01074

Bauer, Helms Zum heutigen Bild der Potentialtheorie. [On the current state of potential theory] 86g:31002

(Bogolyubov, N. N.) See Keldysh, M. V., 86m:01074

(Chentsov, N. N.) See Keldysh, M. V., 86m:01074

Keldysh, M. V. ★ Избранные труды. Математика. (Russian) [Selected works. Mathematics] 86m:01074

Lyubimov, Yu. A. Poisson's memoirs on electrostatics and their significance. (Russian. English summary) 86m:01035

Oganesyan, S. M. (with Starostenko, V. I.) Bodies of zero external gravitational potential: forgotten works and the current state of the theory. (Russian) 86e:86006

Starostenko, V. I. See Oganesyan, S. M., 86e:86006

Biography:

Keldysh, M. V. See Keldysh, M. V., 86m:01074

31-04 Explicit machine computation and programs (not the theory of computation or programming)

secondary classifications (31-04)

Rosser, J. Barkley Calculation of potential in a sector. 86m:31003

31-06 Proceedings, conferences, etc.

(Hirsch, Francis) See Seminar: Potential theory, 86h:31001

(Mokobodski, G.) See Seminar: Potential theory, 86h:31001

Seminar:

Potential theory ★ Séminaire de théorie du potentiel, Paris. No. 7. (French) [Seminar on potential theory, Paris. No. 7] 86h:31001

31Axx Two-dimensional theory

31A05 Harmonic, subharmonic, superharmonic functions

Abian, Alexander Unique determination of any harmonic function from its values given on the points of two convergent sequences. 86i:31001

Alessandrini, Giovanni An extrapolation problem for harmonic functions. (Italian summary) 86a:31001

Collier, Manning G. (with Kelingos, John A.) Mean growth of harmonic functions of Beurling type. 86b:31001

Goldstein, Myron (with Hausmann, Werner; Jetter, K.) Best harmonic L^1 approximation to subharmonic functions. 86b:31002

Hausmann, Werner See Goldstein, Myron et al., 86b:31002

Jetter, K. See Goldstein, Myron et al., 86b:31002

Kelingos, John A. See Collier, Manning G., 86b:31001

Kunchev, O. I. A harmonic function that deviates least from a given function that is continuous in the disc. (Russian. English summary) 86f:31001

Nashmetdinov, I. R. One-sided moduli of continuity and sharp estimates for harmonic functions. (Russian) 86f:31002

Nualtarane, Sawai A note on the functions that preserve harmonicity in the plane. 86h:31002

Quine, J. R. The Laplacian of the \ast -function. (See 86m:30007)

Radshabov, È. L. Generalization of the Almansi formula for homogeneous harmonic polynomials. (Russian. Tajiki summary) 86m:31001

Rakhimov, R. M. A modified potential of a simple layer with respect to a system of mutually nonintersecting contours. (Russian. Tajiki summary) (Not in MR)

Rossi, John The length of asymptotic paths of harmonic functions. 86d:31001

Sodin, M. L. Asymptotic regularity of growth of subharmonic functions of finite order. (Russian) 86b:31003

Srivastava, G. S. The minimum modulus of a subharmonic function. 86e:31001

secondary classifications (31A05)

Attele, K. R. M. Analytic multipliers of Bergman spaces. 86g:46039

Bear, H. S. Nonnegative heat functions on a rectangle. 86j:35075

Korenblum, B. BMO estimates and radial growth of Bloch functions. 86d:30056

McCall, James D. Mean growth, H_p spaces and subharmonic functions in the upper half-plane. 86g:42039

Mokin, Yu. I. Calculation of logarithmic potential in a neighborhood of a boundary curve. (Russian) 86k:65118

Partington, J. R. Growth conditions on subharmonic functions and resolvents of operators. 86e:47004

Quine, J. R. Circular symmetrization and the \ast function. 86b:30046

Shapiro, Joel H. Linear topological properties of the harmonic Hardy spaces H^p for $0 < p < 1$. 86f:46023

Solov'ev, A. A. Estimates in L^p of integral operators connected with spaces of analytic and harmonic functions. (Russian) 86j:47075

Stephenson, Kenneth (with Sundberg, Carl) Level curves of inner functions. 86f:30035

Sundberg, Carl See Stephenson, Kenneth, 86f:30035

Tepper, David E. A jet around an obstacle. (See 86m:30007)

Vasil'kiv, Ya. V. A criterion for completely regular growth of δ -subharmonic functions. (Russian) 86e:31002

Yulmukhametov, R. S. Approximation of subharmonic functions. (Russian) 86h:30072

31A10 Integral representations

Li, Long Tang Integral representations of harmonic functions in a half plane, and their applications. (Chinese. English summary) 86d:31002

secondary classifications (31A10)

Segawa, Shigeo (with Tada, Toshimasa) Martin compactifications and quasiconformal mappings. 86f:30047

Tada, Toshimasa See Segawa, Shigeo, 86f:30047

31A15 Potentials and capacity, harmonic measure, extremal length

[See also 30C85]

Acker, A. Qualitative properties of the boundary derivative of the capacity potential for special classes of annular domains. 86k:31001

Epele, L. N. (with Fanchiotti, H.; García Canal, C. A.) Second order corrected Hadamard formulae. (German summary) 86k:31002

(with Fanchiotti, H.; García Canal, C. A.) Second-order corrected Hadamard formulae. 86k:31003

Fanchiotti, H. See Epele, L. N. et al., 86k:31002 and 86k:31003

García Canal, C. A. See Epele, L. N. et al., 86k:31002 and 86k:31003

Gonchar, A. A. (with Rakhmanov, E. A.) The equilibrium problem for vector potentials. (Russian) (Not in MR)

Kaufman, Robert P. (with Wu, Jang Mei) On the snowflake domain. 86m:31002

Makarov, N. G. Harmonic measure and the Hausdorff measure. (Russian) 86d:31003

Meľnichenko, I. P. A method of description of potential fields with axial symmetry. (Russian) 86k:31004

Misuta, Yoshihiro On the behavior at infinity of logarithmic potentials. 86d:31004

Rakhimov, R. M. Continuity of the logarithmic potential of a double layer up to the contour. (Russian. Tajiki summary) (Not in MR)

Rakhmanov, E. A. See Gonchar, A. A. (Not in MR)

Wu, Jang Mei See Kaufman, Robert P., 86m:31002

secondary classifications (31A15)

Acker, A. On the geometric form of free boundaries satisfying a Bernoulli condition. 86f:35178

Fedorov, S. I. On the problem of extremal partition of the closed plane. (Russian) 86h:30043

Fitzgerald, Carl H. (with Rodin, Burton; Warschawski, Stefan E.) Estimates of the harmonic measure of a continuum in the unit disk. 86e:30021

Kloke, Helmut On the capacity of a plane condenser and conformal mapping. 86m:30009

Lin, En Wu The capacity of a family of Carleson sets. (Chinese. English summary) 86c:28009

Martio, O. Quasiconformal mappings and F -harmonic measure. 86b:30027

Mhaskar, H. N. (with Saff, E. B.) Where does the sup norm of a weighted polynomial live? (A generalization of incomplete polynomials). 86a:41004

Rodin, Burton See Fitzgerald, Carl H. et al., 86e:30021

Rudin, Walter The variation of holomorphic functions on tangential boundary curves. 86b:30005

Saff, E. B. See Mhaskar, H. N., 86a:41004

Solynin, A. Yu. The harmonic measure of continua of fixed diameter. (Russian) 86f:30025

Warschawski, Stefan E. See Fitzgerald, Carl H. et al., 86e:30021

Wu, Jang Mei Examples on harmonic measure and normal numbers. 86j:30033

31A20 Boundary behavior (theorems of Fatou type, etc.)

Benedicks, Michael (with Pfeffer, W. F.) The Dirichlet problem with Denjoy-Perron integrable boundary condition. 86h:31003

Pfeffer, W. F. See Benedicks, Michael, 86h:31003

Stoll, M. Boundary limits of Green potentials in the unit disc. 86g:31003

Boundary limits of subharmonic functions in the disc. 86h:31004

Vasil'kiv, Ya. V. A criterion for completely regular growth of δ -subharmonic functions. (Russian) 86e:31002

secondary classifications (31A20)

Lyons, T. J. An application of fine potential theory to prove a Phragmén-Lindelöf theorem. 86c:30042

Taylor, John Christopher Fine and nontangential convergence on an NTA domain. 86a:31008

31A25 Boundary value and inverse problems

- Amirajanov, I. A. A problem of potential theory. (Russian. English and Azerbaijani summaries) **86d:31005**
- Andriade, T. I. The exterior Poincaré problem for metaharmonic potentials of a simple layer. (Russian) **86b:31004**
- Bitsadze, A. V. On the theory of nonlocal boundary value problems. (Russian) **86b:31005**
- A class of conditionally solvable nonlocal boundary value problems for harmonic functions. (Russian) **86c:31003**
- Borisefko, V. A. (with Martynenko, V. S.; Ulitko, A. F.) A mixed problem of potential theory for a strip. (Russian) **86c:31001**
- Górowski, Jan The Dirichlet problem for the elliptic domain and summability of the Fourier series. **86b:31006**
- Guseinov, E. G. Estimates for the modulus of continuity of the solution of the Dirichlet problem in a plane simply connected domain. (Russian. English and Azerbaijani summaries) **86b:31005**
- Khatlshvili, N. G. The Dirichlet problem for the Laplace equation in a strip with a countable number of gaps. (Russian. English and Georgian summaries) (Not in MR)
- Martynenko, V. S. See Borisefko, V. A. et al., **86c:31001**
- Naralenskoy, M. I. Behavior of the solution of the biharmonic equation in the neighborhood of irregular points. (Russian) **86d:31006**
- Rosner, J. Barkley Calculation of potential in a sector. **86m:31003**
- Saak, E. M. Estimation of the change in the solution of the Dirichlet problem under variation of the domain. (Russian) **86m:31004**
- Ulitko, A. F. See Borisefko, V. A. et al., **86c:31001**
- von Wolfersdorf, L. On strongly nonlinear Poincaré boundary value problems for harmonic functions. (German and Russian summaries) **86b:31006**
- Wu, Jiong Qi The elliptic Martin boundary over a compact set of capacity zero. (Chinese) **86b:31007**
- Yarmukhamedov, Sh. The Cauchy problem for the Laplace equation in M. M. Lavrent'ev's formulation. (Russian) **86i:31003**

secondary classifications (31A25)

- Aleshkov, Yu. Z. Asymptotic analysis of a nonlinear boundary value problem of potential theory which models the motion of a heavy fluid with a free surface. (Russian. English summary) **86e:76011**
- Amel'nikov, V. G. (with Khrustalev, A. F.) A boundary value problem for the Laplace equation. (Russian) **86f:35056**
- Anger, Gottfried On the relationship between mathematics and its applications: a critical analysis by means of inverse problems. **86j:00020**
- Brodskiĭ, M. A. See Strakhov, V. N., **86i:35144** and **86j:86007**
- Gendshoyan, G. V. Solution of boundary value problems for the Laplace equation in doubly connected infinite domains bounded by circles by the method of successive approximations. (Russian. Armenian summary) **86b:35008**
- Grisvard, P. Singular solutions of elliptic boundary value problems in polyhedra. **86a:35042**
- Höppner, W. (with Stresse, Hartmut) ★ Die Randelementmethode in der Potentialtheorie. (German) [The boundary element method in potential theory] **86c:65133**
- Khrustalev, A. F. See Amel'nikov, V. G., **86f:35056**
- Strakhov, V. N. (with Brodskiĭ, M. A.) Conditions for the uniqueness of the solution of plane inverse problems of gravimetry and magnetometry for polygons with variable density and magnetization. (Russian) **86j:86007**
- (with Brodskiĭ, M. A.) Uniqueness of the solution of a two-dimensional inverse problem of potential for polygons. (Russian) **86i:35144**
- Stresse, Hartmut See Höppner, W., **86c:65133**
- Verchota, Gregory Layer potentials and regularity for the Dirichlet problem for Laplace's equation in Lipschitz domains. **86e:35038**
- Zhu, Jia Lin The boundary integral equation method for solving the Dirichlet problem of a biharmonic equation. (Chinese. English summary) **86b:65131**

31A30 Biharmonic, polyharmonic functions and equations, Poisson's equation

- Akhmedov, Z. A. Uniqueness of the solution of some problems for the biharmonic equation. (Russian) **86d:31007**
- Atakhodjaev, M. A. Single-valued, dense solvability of a plane ill-posed problem for the biharmonic equation. (Russian) **86i:31003**
- Diomeda, Lorenza (with Lisena, Benedetta) Boundary problems for the biharmonic operator in a square with L^p -data. **86b:31008**
- Gorbachuk, V. I. Conditions for solvability of the Riquier problem for a biharmonic equation in a half plane and boundary properties of solutions. (Russian. English summary) **86b:31009**
- Lekvishvili, D. M. Estimates of the generalized solution of the mixed problem for a biharmonic equation in the neighborhood of a boundary point. (Russian) **86a:31002**
- Lisena, Benedetta See Diomeda, Lorenza, **86b:31008**
- Pogu, Marc (with Tournemine, G.) Une classe de problèmes aux limites avec condition de Kutta-Joukowski généralisée et associée au bilaplacien. (English summary) [Boundary value problems with a generalized Kutta-Joukowski condition connected with biharmonic equations] **86b:31010**
- Smyrnelia, Emmanuel P. Une propriété de moyenne des fonctions biharmoniques. (English summary) [A mean-value property of biharmonic functions] **86i:31004**
- Tournemine, G. See Pogu, Marc, **86b:31010**

secondary classifications (31A30)

- Bitsadze, D. G. See Khatlshvili, G. M., **86c:73007**
- Essén, M. A superharmonic proof of the M. Riesz conjugate function theorem. **86c:30068**
- Khatlshvili, G. M. (with Bitsadze, D. G.) Convergence of the iteration process in the biharmonic problem for an ellipse. (Russian) **86c:73007**

- Lur'e, S. A. The method of homogeneous solutions in problems on the plane stressed state and bending of orthotropic plates. (Russian. English and Armenian summaries) **86g:73035**
- Naralenskoy, M. I. Behavior of the solution of the biharmonic equation in the neighborhood of irregular points. (Russian) **86d:31006**
- Rogulea, M. N. ★ Ecuatii diferențiale și aplicații. (Romanian) [Differential equations and applications] **86m:35002**
- Steinberg, Jacob Application of the symmetry principle for biharmonic functions to a problem in fracture mechanics. **86k:73055**

31A35 Connections with differential equations

- Lasarov, Rakho D. (with Mokin, Yu. I.) The calculation of the logarithmic potential. (Russian) **86d:31008**
- Mokin, Yu. I. See Lasarov, Rakho D., **86d:31008**
- secondary classifications (31A35)
- Epele, L. N. (with Fanchiotti, H.; García Canal, C. A.) Second order corrected Hadamard formulae. (German summary) **86k:31002**
- (with Fanchiotti, H.; García Canal, C. A.) Second-order corrected Hadamard formulae. **86k:31003**
- Fanchiotti, H. See Epele, L. N. et al., **86k:31002** and **86k:31003**
- García Canal, C. A. See Epele, L. N. et al., **86k:31002** and **86k:31003**
- Kosmodem'yanskii, A. A., Jr. A problem with unknown boundary for elliptic equations. (Russian) **86j:35042**
- Lin, Fang Hua (with Ni, Wei Ming) On the least growth of harmonic functions and the boundary behavior of Riemann mappings. **86b:30038**
- Ni, Wei Ming See Lin, Fang Hua, **86b:30038**

31Bxx Higher-dimensional theory

31B05 Harmonic, subharmonic, superharmonic functions

- Armitage, D. H. Uniqueness theorems for harmonic functions in half-spaces. **86j:31002**
- (with Kuran, Ü.) The convexity of a domain and the superharmonicity of the signed distance function. **86k:31005**
- Essén, M. (with Jackson, H. L.; Rippon, P. J.) On α -minimally thin sets in a half-space in \mathbb{R}^p , $p \geq 2$. **86g:31004**
- (with Haliste, Kersti) A problem of Burkholder and the existence of harmonic majorants of $|z|^p$ in certain domains in \mathbb{R}^d . **86a:31003**
- Gardiner, S. J. A maximum principle and results on potentials. **86i:31005**
- Haliste, Kersti Some estimates of harmonic majorants. **86a:31004**
- See also Essén, M., **86a:31003**
- Jackson, H. L. See Essén, M. et al., **86g:31004**
- Jannulasz, Algimantas An analogue of mappings that are harmonic in the sense of M. A. Lavrent'ev. (Russian. French and Lithuanian summaries) **86b:31007**
- Kondratyuk, A. A. Spherical harmonics and subharmonic functions. (Russian) **86a:31005**
- Kuran, Ü. See Armitage, D. H., **86k:31005**
- Rao, Murall Integral Harnack inequality. **86m:31005**
- Rippon, P. J. See Essén, M. et al., **86g:31004**
- Shvedov, A. S. Approximation of subharmonic functions by subharmonic polynomials. (Russian) **86m:31006**
- Umakhanov, A. Ya. Some uniqueness theorems for harmonic functions. (Russian) **86d:31009**
- Vesilovskaya, O. V. An analogue of Miles's theorem for functions δ -subharmonic in \mathbb{R}^m . (Russian) **86d:31010**

secondary classifications (31B05)

- Dzhvarshelashvili, I. A. Boundary properties of harmonic and subharmonic functions of several variables. (Russian) **86b:31015**
- Erštin, E. A. Stability of harmonic mappings of three-dimensional domains. (Russian) **86c:35040**
- Essén, M. (with Jackson, H. L.; Rippon, P. J.) On minimally thin and rarefied sets in \mathbb{R}^p , $p \geq 2$. **86i:31008**
- Gur'yanova, K. N. (with Kozmanova, A. A.) Some questions of the theory of entire functions and their application to the theory of continuation of harmonic functions of three variables. (Russian) **86d:30040**
- Jackson, H. L. See Essén, M. et al., **86i:31008**
- Janson, S. (with Peetre, Jaak) Harmonic interpolation. **86k:46104**
- Kozmanova, A. A. See Gur'yanova, K. N., **86d:30040**
- Peetre, Jaak See Janson, S., **86k:46104**
- Rippon, P. J. See Essén, M. et al., **86i:31008**

31B10 Integral representations

- Fuglede, Bent Représentation intégrale des potentiels fins. (English summary) [Integral representation of fine potentials] **86g:31005**
- Sekerin, A. B. Integral representation of subharmonic functions. (Russian) **86d:31011**
- Suzuki, Noriaki Martin boundary for $\Delta - P$. **86d:31012**

secondary classifications (31B10)

- Shvedov, A. S. Approximation of subharmonic functions by subharmonic polynomials. (Russian) **86m:31006**

31B15 Potentials and capacities, extremal length

- Ancona, Alano Sur une conjecture concernant la capacité et l'effilement. [On a conjecture concerning capacity and thinness] **86j:31003**
- Misuta, Yoshihiro Study of the behavior of logarithmic potentials by means of logarithmically thin sets. **86a:31008**
- Quetting, R. Wann besitzt das Robinsche Problem die konstante Lösung? [When does the Robin problem have the constant solution?] **86b:31011**
- Raynaud-Pimenta, M. J. Lien entre (1) la différentiabilité en norme, (2) la différentiabilité fine, (3) les capacités newtoniennes. [The link between (1) differentiability in the norm, (2) fine differentiability, (3) Newtonian capacities] **86i:31006**
- Rubin, B. S. Riesz potentials and operators of Riemann-Liouville type in a half space. (Russian) **86g:31006**
- Zoril, N. V. The problem of the minimum energy for three-dimensional condensers. (Russian) **86g:31007**

secondary classifications (31B15)

- Aseev, V. V. Quasi-invariance of the modulus of families of surfaces. (Russian) **86h:30036**
- Bagby, Thomas Approximation in the mean by solutions of elliptic equations. **86d:31014**
- Chegis, I. A. An asymptotic formula for the potential of a cylinder of small height. (Russian) **86i:31007**
- Essén, M. (with Jackson, H. L.; Rippon, P. J.) On minimally thin and rarefied sets in \mathbb{R}^p , $p \geq 2$. **86i:31008**
- Gatto, Angel E. (with Gutiérrez, Cristian E.; Wheeden, Richard L.) Fractional integrals on weighted H^p spaces. **86k:42037**
- Gutiérrez, Cristian E. See Gatto, Angel E. et al., **86k:42037**
- Jackson, H. L. See Essén, M. et al., **86i:31008**
- Kolarud, Torbjörn Capacity integrals in Dirichlet spaces. **86f:31003**
- Królikowski, Wiesław Biholomorphic invariants on relative homology groups. **86a:32057**
- Magenes, Enrico Mathematical problems in electrocardiologic potential theory. **86m:92005**
- Mosco, U. Module de Wiener et estimations du potentiel pour le problème d'obstacle. (English summary) [Wiener modulus and potential estimates for the obstacle problem] **86d:49015**
- Rippon, P. J. See Essén, M. et al., **86i:31008**
- Rubin, B. S. One-dimensional representation, inversion and certain properties of Riesz potentials of radial functions. (Russian) **86a:42015**
- Saff, E. B. Incomplete and orthogonal polynomials. **86b:41029**
- Shapiro, B. Z. See Vainshtein, A. D., **86h:58120**
- Solbel'man, Ya. S. Asymptotic behavior of the capacitance of a condenser with plates of arbitrary form. (Russian) **86b:78015**
- Stocke, Britt-Marie Differentiability properties of Bessel potentials and Besov functions. **86b:46050**
- Vainshtein, A. D. (with Shapiro, B. Z.) Multidimensional analogues of the Newton and Ivory theorems. (Russian) **86h:58120**
- Wheeden, Richard L. See Gatto, Angel E. et al., **86k:42037**

31B20 Boundary value and inverse problems

- Aliev, T. G. Local solid-contour problem for subharmonic functions in the space \mathbb{R}^n . (Russian) **86k:31006**
- Three-dimensional contour-solid theorems for subharmonic functions. (Russian) **86k:31007**
- Allmov, Sh. A. Membership in the Hölder class of the gradient of a harmonic function. (Russian) **86m:31007**
- Bavrin, I. I. Operators for harmonic functions and their applications. (Russian) **86g:31008**
- Chegis, I. A. An asymptotic formula for the potential of a cylinder of small height. (Russian) **86i:31007**
- David, Mendel (with Postan, A.) On a Dirichlet-Neumann third mixed boundary value problem for harmonic functions. **86b:31012**
- Jaswon, M. A. Some theoretical aspects of boundary integral equations. **86a:31007**
- Kaisu, Satooshi The Robin problems on domains with many tiny holes. **86k:31008**
- Pagan, Carlo Domenico Inverse problems for the volume potential. **86b:31013**
- Postan, A. See David, Mendel, **86b:31012**
- Shaginyan, A. A. Solvability of the Dirichlet problem for harmonic functions in unbounded domains of Euclidean spaces and on open Riemann surfaces. (Russian. Armenian summary) **86b:31014**

secondary classifications (31B20)

- Donig, J. A localization of Fredholm eigenvalues for the Helmholtz operator in bounded domains. **86j:35041**
- Grimaldi Piro, Anna (with Ragnedda, Francesco; Neri, Umberto) BMO continuity for some heat potentials. **86g:35086**
- Kawohl, Bernhard Starshapedness of level sets for the obstacle problem and for the capacity potential problem. **86c:35063**
- Kurbanmuradov, O. A. (with Sabelfeld, K. K.) Solution of multidimensional problems of potential theory by the method of random walk along the boundary. (Russian) **86i:35062**
- Mas'ya, V. G. (with Nazarov, S. A.; Plamenevskii, B. A.) The Dirichlet problem in domains with thin cross connections. (Russian) **86f:35058**
- Murray, J. C. On the boundary-value problem associated with a general twisted tube with a slowly varying circular section. **86b:35025**
- Nazarov, S. A. See Mas'ya, V. G. et al., **86f:35058**
- Neri, Umberto See Grimaldi Piro, Anna et al., **86g:35086**
- Plamenevskii, B. A. See Mas'ya, V. G. et al., **86f:35058**
- Prilepko, A. I. Inverse problems for potentials of elliptic equations. (Russian) **86j:35156**
- Radshabov, E. L. Some boundary value problems for the biharmonic equation. (Russian. Tajiki summary) **86h:31008**

- Ragnedda, Francesco See Grimaldi Piro, Anna et al., **86g:35086**
- Sabelfeld, K. K. See Kurbanmuradov, O. A., **86i:35062**
- Soboleva, E. S. Asymptotic expansion of the solution of a boundary value problem for a biharmonic equation with a small parameter. (Russian) **86g:35034**

31B25 Boundary behavior

- Dalvarshahshvili, I. A. Boundary properties of harmonic and subharmonic functions of several variables. (Russian) **86b:31015**
- Essén, M. (with Jackson, H. L.; Rippon, P. J.) On minimally thin and rarefied sets in \mathbb{R}^p , $p \geq 2$. **86i:31008**
- Gundy, R. F. Temps locaux et l'intégrale d'aire de Lusin. [Local times and the Lusin area integral] **86d:31013**
- Jackson, H. L. See Essén, M. et al., **86i:31008**
- Lyons, T. J. (with MacGibbon, K. B.; Taylor, John Christopher) Projection theorems for hitting probabilities and a theorem of Littlewood. **86c:31002**
- MacGibbon, K. B. See Lyons, T. J. et al., **86c:31002**
- Rippon, P. J. See Essén, M. et al., **86i:31008**
- Taylor, John Christopher Fine and nontangential convergence on an NTA domain. **86a:31008**
- See also Lyons, T. J. et al., **86c:31002**

secondary classifications (31B25)

- Arques, Didier Représentation des opérateurs vérifiant le principe du maximum positif. [Representation of operators satisfying the positive maximum principle] **86i:31009**
- Chaudhry, Muhammed Aslam (with Pandey, J. N.) Generalized $(n+1)$ -dimensional Dirichlet boundary value problem. **86h:35019**
- Frehe, J. (with Mosco, U.) Wiener obstacles. **86a:49009**
- Mosco, U. See Frehe, J., **86a:49009**
- Pandey, J. N. See Chaudhry, Muhammed Aslam, **86h:35019**

31B30 Biharmonic and polyharmonic equations and functions

- Donchev, T. Weighted positivity of a triharmonic operator. (Bulgarian. English and Russian summaries) **86g:31009**
- Glez, Luis A. (with Wildenhain, Günther) The nontangential limit of polyharmonic functions in a ball and the Fatou theorem. (Spanish. English summary) **86a:31009**
- Radshabov, E. L. Some boundary value problems for the biharmonic equation. (Russian. Tajiki summary) **86h:31008**
- Sulhanishvili, G. I. Solution of the Riquier problem. (Russian. English and Georgian summaries) **86c:31003**
- Wildenhain, Günther Die feine Topologie der Potentialtheorie und ihre Anwendung in der komplexen Funktionentheorie. [The fine topology in potential theory, and its application in complex function theory] **86j:31016**
- See also Glez, Luis A., **86a:31009**

secondary classifications (31B30)

- Ahlbrandt, Calvin D. (with Hinton, Don; Lewis, Roger T.) Inversion in the unit sphere for powers of the Laplacian. **86b:35003**
- Aronasajin, Nachman (with Creese, Thomas M.; Lipkin, Leonard J.) ★ Polyharmonic functions. **86g:31001**
- Creese, Thomas M. See Aronasajin, Nachman et al., **86g:31001**
- (Gerlach, E.) See Aronasajin, Nachman et al., **86g:31001**
- Hinton, Don See Ahlbrandt, Calvin D. et al., **86b:35003**
- Kenig, Carlos E. The Dirichlet problem for the biharmonic equation in a Lipschitz domain. (See **86j:00010**)
- Lewis, Roger T. See Ahlbrandt, Calvin D. et al., **86b:35003**
- Lipkin, Leonard J. See Aronasajin, Nachman et al., **86g:31001**
- Maalovskaya, L. V. Behavior of solutions of boundary value problems for the biharmonic equation in domains with corner points. (Russian) **86c:35047**
- Roşculeţ, M. N. ★ Ecuaţii diferenţiale şi aplicaţii. (Romanian) [Differential equations and applications] **86m:35002**
- Schild, Bernhard ★ Über die Regularität der Lösungen polyharmonischer Variationsungleichungen mit ein- und zweiseitigen dünnen Hindernissen. (German) [On the regularity of the solutions of polyharmonic variational inequalities with one- and two-sided thin obstacles] **86a:49015**

31B35 Connections with differential equations

- Arques, Didier Représentation des opérateurs vérifiant le principe du maximum positif. [Representation of operators satisfying the positive maximum principle] **86i:31009**
- Bagby, Thomas Approximation in the mean by solutions of elliptic equations. **86d:31014**
- Lumer, Gunter Équations de diffusion générales sur des réseaux infinis. [General diffusion equations on infinite networks] **86i:31010**

secondary classifications (31B35)

- Donchev, T. Weighted positivity of a triharmonic operator. (Bulgarian. English and Russian summaries) **86g:31009**
- Januskauskas, Algimantas Mappings harmonic in the sense of M. A. Lavrent'ev. (Russian) **86k:30073**
- Lindqvist, Peter On the growth of the solutions of the differential equation $\operatorname{div}(|\nabla u|^{p-2} \nabla u) = 0$ in n -dimensional space. **86k:35043**
- Loster, Caselaw On some boundary value problem for the equation $\Delta u(X) - c^2(X) = 0$. **86d:35029**
- Sulhanishvili, G. I. Solution of the Riquier problem. (Russian. English and Georgian summaries) **86c:31003**
- Taylor, Samuel James (with Watson, N. A.) A Hausdorff measure classification of polar sets for the heat equation. **86m:35077**
- Watson, N. A. See Taylor, Samuel James, **86m:35077**
- Zhdanova, G. V. The Dirichlet problem for the Helmholtz operator in the exterior of a thin body of revolution. (Russian) **86a:35043**

31B99 None of the above, but in this section

Protsenko, V. S. Formulas for re-expansion of harmonic functions in a spherical and a compressed-spheroidal coordinate system. (Russian. English summary) **86b:31017**

secondary classifications (31B99)

Gränlund, S. (with Lindqvist, Peter; Martio, O.) Phragmén-Lindelöf's and Lindelöf's theorems. **86i:30030**

Lindqvist, Peter See Gränlund, S. et al., **86i:30030**

Martio, O. See Gränlund, S. et al., **86i:30030**

31Cxx Other generalizations

31C05 Harmonic, subharmonic, superharmonic functions

Cima, J. A. (with Stanton, C. S.) Admissible limits of M -subharmonic functions. **86c:31004**

Furuta, Yoshito See Hoshi, Seichi, **86j:31004**

Hoshi, Seichi (with Furuta, Yoshito) On quaternion functions which construct the harmonic functions and the solutions of Helmholtz equation: a synthetic report. **86j:31004**

Khabibullin, B. N. Comparison of subharmonic functions by their associated measures. (Russian) **86m:31008**

Ramacher-Jones, Andriamanohiso Fonctions harmoniques sur les arbres homogènes. (English summary) [Harmonic functions on homogeneous trees] **86j:31005**

Stanton, C. S. See Cima, J. A., **86c:31004**

secondary classifications (31C05)

Korányi, A. (with Stanton, Nancy K.) Liouville-type theorems for some complex hypoelliptic operators. **86i:22016**

Oksead, Bernd Finely harmonic functions with finite Dirichlet integral with respect to the Green measure. **86b:60147**

Rudin, Walter Eigenfunctions of the invariant Laplacian in B . **86g:32051**

Stanton, Nancy K. See Korányi, A., **86i:22016**

31C10 Pluriharmonic and plurisubharmonic functions [See also 32F05.]

secondary classifications (31C10)

Fichera, Gaetano Boundary values of pluriharmonic functions: extension to the space \mathbb{R}^{2n} of a theorem of L. Amoroso. (Italian. English summary) **86m:32037**

Finkel, Carlos D. Analytic, harmonic and pluriharmonic mappings in a complex vector space. (Spanish. English summary) (See **86b:00009a**)

Gaveau, B. (with Kalina, Jerzy) Calculus explicites de mesures plurisubharmoniques et des feuilletages associés. (English summary) [Explicit computations of plurisubharmonic measures and associated foliations] **86d:32018**

Kalina, Jerzy See Gaveau, B., **86d:32018**

Kiselman, Christer O. Sur la définition de l'opérateur de Monge-Ampère complexe. (Esperanto summary) [On the definition of the complex Monge-Ampère operator] **86j:32037**

Laville, G. Caractérisation des traces des fonctions pluriharmoniques par un seul opérateur. [Characterization of traces of pluriharmonic functions by a single operator] **86b:32039**

Lelong, Pierre Two equivalent definitions of the density numbers for a plurisubharmonic function in a topological vector space. **86f:32021**

Ohsawa, Takeo On the domain of existence of P -pluriharmonic functions. **86i:32033**

Okada, Masami Sur une capacité définie par la forme de Dirichlet associée aux fonctions plurisubharmoniques. [A capacity defined by the Dirichlet form associated with plurisubharmonic functions] **86c:32018**

Ronkin, L. I. Existence of plurisubharmonic functions with a given type (indicator) for a more precise order with respect to an isolated variable. (Russian) **86j:32039**

Rudin, Walter Composition with inner functions. **86j:32010**

31C12 Potential theory on Riemannian manifolds [See also 53C20; for Hodge theory, see 58A14.]

Gulvarc'h, Y. Sur la représentation intégrale des fonctions harmoniques et des fonctions propres positives dans un espace riemannien symétrique. (English summary) [Integral representation of positive eigenfunctions and harmonic functions in a Riemannian symmetric space] **86i:31011**

Keele, V. M. Riemannian manifolds of α -parabolic type. (Russian) **86m:31009**

secondary classifications (31C12)

Damek, Ewa Harmonic functions on semidirect extensions of type H nilpotent groups. **86i:43013**

Li, Peter (with Schoen, Richard) L^p and mean value properties of subharmonic functions on Riemannian manifolds. **86j:58147**

Lyons, T. J. (with Sullivan, Dennis) Function theory, random paths and covering spaces. **86b:58136**

Molzon, Robert E. Potential theory in Nevanlinna theory and analytic geometry. **86b:32030**

Schoen, Richard See Li, Peter, **86j:58147**

Sullivan, Dennis See Lyons, T. J., **86b:58136**

Varopoulos, N. Th. Une généralisation du théorème de Hardy-Littlewood-Sobolev pour les espaces de Dirichlet. (English summary) [A generalization of the Hardy-Littlewood-Sobolev theorem for Dirichlet spaces] **86f:31004**

31C15 Potentials and capacities

Adams, D. R. (with Lewis, John L.) Fine and quasicontinuity in nonlinear potential theory. **86b:31009**

All, S. A. (with Simons, Stephen) The representation of lattice-valued capacities. **86j:31006**

Bănuțescu, Martha Potential theory on Lie groups. **86c:31004**

Hueber, Hermann Wiener's criterion in potential theory with applications to nilpotent Lie groups. **86m:31010**

Itô, Masayuki Sur une décomposition des noyaux de convolution de Hunt. [A decomposition of Hunt convolution kernels] **86m:31011a**

L'unicité de la décomposition des noyaux de convolution de Hunt. [Uniqueness of the decomposition of Hunt convolution kernels] **86m:31011b**

Lewis, John L. See Adams, D. R., **86b:31009**

Rodríguez Expósito, José The kernel of Bessel-Clifford potentials and Lipschitz spaces. (Spanish) (See **86g:00012c**)

Simons, Stephen See All, S. A., **86j:31006**

secondary classifications (31C15)

Anger, Bernd (with Lembcke, Jörn) Infinitely subadditive capacities as upper envelopes of measures. **86f:28005**

Eells, J. (with Polking, J. C.) Removable singularities of harmonic maps. **86c:58018**

Kráľ, Josef Semielliptic singularities. (Russian and Czech summaries) **86c:35044**

Lembcke, Jörn See Anger, Bernd, **86f:28005**

Levenberg, Norman (with Taylor, B. A.) Comparison of capacities in C^n . **86g:32023**

Polking, J. C. See Eells, J., **86c:58018**

Pop-Stojanović, Z. R. (with Rao, Murali) Convergence in energy. **86k:60139**

Rao, Murali See Pop-Stojanović, Z. R., **86k:60139**

Raynaud-Pimenta, M. J. Lien entre (1) la différentiabilité en norme, (2) la différentiabilité fine, (3) les capacités newtoniennes. [The link between (1) differentiability in the norm, (2) fine differentiability, (3) Newtonian capacities] **86i:31006**

Ryaben'kiĭ, V. S. The Green formula and potential generalized on the basis of the notion of a clear trace. (Russian) **86c:35048**

Shapiro, Victor L. Capacity and 2nd order semilinear elliptic supersolutions. **86i:35041**

Takeda, Masayoshi (r, p) -capacity on the Wiener space and properties of Brownian motion. **86f:60101**

Taylor, B. A. See Levenberg, Norman, **86g:32023**

Varopoulos, N. Th. Théorie du potentiel sur les groupes nilpotents. (English summary) [Potential theory on nilpotent groups] **86i:22017**

31C20 Discrete potential theory and numerical methods

Kayano, Takashi (with Yamasaki, Maretsugu) Boundary limit of discrete Dirichlet potentials. **86j:31007**

Yamasaki, Maretsugu See Kayano, Takashi, **86j:31007**

secondary classifications (31C20)

Doyle, Peter G. Random walk on the Speiser graph of a Riemann surface. **86b:58129**

31C25 Dirichlet spaces

Kolarud, Torbjörn Capacity integrals in Dirichlet spaces. **86f:31003**

Varopoulos, N. Th. Une généralisation du théorème de Hardy-Littlewood-Sobolev pour les espaces de Dirichlet. (English summary) [A generalization of the Hardy-Littlewood-Sobolev theorem for Dirichlet spaces] **86f:31004**

secondary classifications (31C25)

Ichihara, Kanji Explosion problems for symmetric diffusion processes. **86i:60200**

Okada, Masami Sur une capacité définie par la forme de Dirichlet associée aux fonctions plurisubharmoniques. [A capacity defined by the Dirichlet form associated with plurisubharmonic functions] **86c:32018**

Takeda, Masayoshi (r, p) -capacity on the Wiener space and properties of Brownian motion. **86f:60101**

31C35 Martin boundary theory [See also 60J50.]

Ancona, Alano Régularité d'accès des bouts et frontière de Martin d'un domaine euclidien. [Regularity of attainability of ends and Martin boundary of a Euclidean domain] **86f:31005**

March, Peter Fatou's theorem for the harmonic functions of two-dimensional Ornstein-Uhlenbeck processes. **86m:31012**

31C99 None of the above, but in this section

Ben Saad, Hedi Généralisation des noyaux V_h et applications. [Generalization of the kernels V_h and applications] **86i:31012**

Itô, Masayuki Une caractérisation des noyaux de convolution réels de type logarithmique. [A characterization of real convolution kernels of logarithmic type] **86c:31005**

secondary classifications (31C99)

Maksimov, V. M. A formal theory of harmonic equations and polynomials relative to commutative algebras. (Russian) **86d:30075**

Ramakrishnan, S. Potential theory for finitely additive Markov chains. **86c:60110**

31D05 Axiomatic potential theory

- Ben Saad, Hedi Fonction de Green sur un espace de Brelot. [Green function on a Brelot space] 86i:31013
 See also Janssen, Klaus, 86k:31009
- Blüdtner, Jürgen (with Loeb, Peter A.) A measure-theoretic boundary limit theorem. 86m:31013
- Boboc, N. (with Bucur, Gh.) Natural localization and natural sheaf property in standard H -cones of functions. I. 86m:31014
- Bucur, Gh. See Boboc, N., 86m:31014
- Cornes, Aurel (with Wittmann, Rainer) An approximation theorem for cones of potentials. 86b:31018
- Eriksson, Sirkka-Liisa Hyperharmonic cones and hyperharmonic morphisms. 86a:31010
- Feyel, D. Remarques sur les cônes de potentiels. [Remarks on cones of potentials] 86m:31015
- Guillermé, Jean Une autre démonstration du théorème de partition de M. Brelot. [Another proof of M. Brelot's partition theorem] 86f:31006
- Hansen, Wolfhard Harmonic and superharmonic functions on compact sets. 86b:31019
- Ikegami, Teruo On the boundary behavior of the Dirichlet solutions at an irregular boundary point. 86c:31005
- Ito, Mariko Abstract Green operators and semigroups. 86a:31011a
 On existence of Green operator and positive superharmonic functions. 86a:31011b
- Janssen, Klaus (with Ben Saad, Hedi) Topologie fine et mesure de référence. [Fine topology and reference measure] 86k:31009
- Jesura, Ramasamy Continuous functions on polar sets. 86f:31007
- Knefelman, D. G. Some problems in the theory of Choquet simplexes, connected with harmonic spaces. (Russian) 86d:31015
- Loeb, Peter A. See Blüdtner, Jürgen, 86m:31013
- Maeda, Fumi-Yuki Semilinear boundary value problems with respect to an ideal boundary on a selfadjoint harmonic space. 86a:31012
 Removability of polar sets for solutions of semilinear equations on a harmonic space. 86b:31020
- Oja, Kirati On the set of regular boundary points. 86a:31013
- Popa, Eugen Morphisms of H -cones. II. 86d:31016
 Finely open morphisms of H -cones. 86f:31008
- Smyrnelis, Emmanuel P. Axiome de domination dans les espaces biharmoniques. [Domination axiom in biharmonic spaces] 86m:31016
- Stoica, Lucretiu On finely supermean valued functions. 86c:31006
- Wittmann, Rainer See Cornes, Aurel, 86b:31018

secondary classifications (31D05)

- Ancona, Alano Variétés à courbure négative, opérateurs elliptiques et frontière de Martin. (English summary) [Negatively curved manifolds, elliptic operators and the Martin boundary] 86j:58153
- Bauer, Heinz Harmonic spaces—a survey. 86j:31001
- Boccaccio, Carlo Lion operators on projective limits of projective systems of compact spaces. (Italian. English summary) 86c:47055
- Hueber, Hermann (with Sieveking, Malte) Quotients of Green functions on \mathbb{R}^n . 86c:35041
- Sieveking, Malte See Hueber, Hermann, 86c:35041

32-XX SEVERAL COMPLEX VARIABLES AND ANALYTIC SPACES (For infinite-dimensional holomorphy, see also 46G20, 58B12.)

secondary classifications (32-XX)

- Berenstein, C. A. See Yger, A., (86j:00010)
- Yger, A. (with Berenstein, C. A.) Traitement du signal et algorithmes explicites de déconvolution. [Signal processing and explicit deconvolution algorithms] (See 86j:00010)

32-01 Elementary exposition; textbooks

- (Aleksandrov, A. B.) See Rudin, Walter, 86e:32001
- Cano Torres, Felipe (with Hermida Alonso, José Ángel; Lê Dũng Tráng) ★ Introducción a la geometría de los sistemas diferenciales. (Spanish) [Introduction to the geometry of differential systems] 86j:32001
- (Chirka, E. M.) See Rudin, Walter, 86e:32001
- Hermida Alonso, José Ángel See Cano Torres, Felipe et al., 86j:32001
- (Isvakovich, S. M.) See Rudin, Walter, 86e:32001
- Janulaukas, Algimantas ★ Аналитические и гармонические функции многих переменных. (Russian) [Analytic and harmonic functions of several variables] 86i:32001
- Lê Dũng Tráng See Cano Torres, Felipe et al., 86j:32001
- Rudin, Walter ★ Теория функций в единичном шаре из \mathbb{C}^n . (Russian) [Function theory in the unit ball of \mathbb{C}^n] 86e:32001
- (Shabat, E. B.) See Rudin, Walter, 86e:32001

secondary classifications (32-01)

- Barroso, Jorge Alberto ★ Introduction to holomorphy. 86g:46065
- Chae, Soo Bong ★ Holomorphy and calculus in normed spaces. 86j:46044
- (Taylor, Angus E.) See Chae, Soo Bong, 86j:46044

32-02 Advanced exposition (research surveys, monographs, etc.)

- Chirka, E. M. ★ Комплексные аналитические множества. (Russian) [Complex analytic sets] 86i:32002
- Forster, Otto (with Stein, Karl) Entwicklungen in der komplexen Analysis mehrerer Veränderlichen. [Developments in the analysis of several complex variables] 86i:32003
- Grauert, Hans (with Remmert, R.) ★ Coherent analytic sheaves. 86a:32001
- Khenkin, G. M. (with Leiterer, J.) ★ Theory of functions on complex manifolds. 86a:32002
 (with Leiterer, J.) ★ Theory of functions on complex manifolds. 86i:32004
- Leiterer, J. See Khenkin, G. M., 86a:32002 and 86i:32004
- Manin, Yu. I. ★ Калибровочные поля и комплексная геометрия. (Russian) [Gauge fields and complex geometry] 86m:32001
- Pinchuk, S. I. Analytic extension of mappings and holomorphic equivalence problems in \mathbb{C}^n . (Russian) 86m:32002
- Remmert, R. See Grauert, Hans, 86a:32001
- Stein, Karl See Forster, Otto, 86i:32003

secondary classifications (32-02)

- Barth, K. F. (with Brannan, D. A.; Hayman, W. K.) Research problems in complex analysis. 86b:30004
- Brannan, D. A. See Barth, K. F. et al., 86b:30004
- Hayman, W. K. See Barth, K. F. et al., 86b:30004
- Tutschke, Wolfgang Classical and modern methods of complex analysis. (See 86b:30001a)

32-03 Historical (must also be assigned at least one classification number from Section 01)

secondary classifications (32-03)

- Takase, Masahito Origine de la notion de pseudoconvexité dans la théorie des fonctions analytiques de plusieurs variables complexes. Signification du problème inverse de Hartogs. [Origin of the notion of pseudoconvexity in the theory of analytic functions of several complex variables. Significance of the inverse problem of Hartogs] 86k:01039

32-06 Proceedings, conferences, etc.

- (Galligo, André) See Differential systems and singularities, 86g:32001
- (Granger, Michel) See Differential systems and singularities, 86g:32001
- (Kuranishi, Masatake) See Topics in several complex variables, 86f:32001
- (Maisonobe, Ph.) See Differential systems and singularities, 86g:32001
- (Ramírez de Arellano, E.) See Topics in several complex variables, 86f:32001
- (Sundaraman, D.) See Topics in several complex variables, 86f:32001
- (Vesentini, Edoardo) See Seminar: Geometry, "Luigi Bianchi", 86m:32003
- Colloquium:
 Differential systems and singularities ★ Differential systems and singularities. (French) 86g:32001
- Differential systems and singularities ★ Differential systems and singularities. (French) 86g:32001
- Luminy ★ Differential systems and singularities. (French) 86g:32001
- Mexico ★ Topics in several complex variables. 86f:32001
- Nancy ★ Séminaire de géométrie analytique. (French) [Seminar on analytic geometry] 86h:32001
- Pisa ★ Geometry seminar "Luigi Bianchi" II—1984. 86m:32003
- Seminar:
 Analytic geometry ★ Séminaire de géométrie analytique. (French) [Seminar on analytic geometry] 86h:32001
- Geometry, "Luigi Bianchi" ★ Geometry seminar "Luigi Bianchi" II—1984. 86m:32003
- Systèmes différentiels et singularités ★ Differential systems and singularities. (French) 86g:32001
- Topics in several complex variables ★ Topics in several complex variables. 86f:32001
- Workshop:
 Several complex variables ★ Topics in several complex variables. 86f:32001

secondary classifications (32-06)

- (Adnadjević, Dušan) See Symposium: Complex analysis and applications, 86d:30004
- Wiegerinck, Johannes Joseph Oscar Odilia ★ Entire functions of Paley-Wiener type in \mathbb{C}^n , Radon transforms and problems of holomorphic extension. 86i:32008
- Arandjelovic ★ International symposium on complex analysis and applications. 86d:30004
- Symposium:
 Complex analysis and applications ★ International symposium on complex analysis and applications. 86d:30004

32Axx Holomorphic functions of several complex variables

secondary classifications (32Axx)

- Aronszajn, Nachman (with Creese, Thomas M.; Lipkin, Leonard J.) ★ Polyharmonic functions. 86g:31001
- Creese, Thomas M. See Aronszajn, Nachman et al., 86g:31001
- (Gerlach, E.) See Aronszajn, Nachman et al., 86g:31001
- Lipkin, Leonard J. See Aronszajn, Nachman et al., 86g:31001

32A05 Power series, series of functions

- Kishka, Zeinbom. See Sayyed, Kamel. 86b:32005
 Mursev, E. B. Approximation of analytic functions of two variables by polynomials in the Mittag-Leffler star. (Russian) 86b:32002
 Sargos, Patrick Prolongement méromorphe des séries de Dirichlet associées à des fractions rationnelles de plusieurs variables. (English summary) [Meromorphic continuation of Dirichlet series associated with rational fractions of several variables] 86m:32004
 Sayyed, Kamel (with Kishka, Zeinbom) Composition of analytic functions of two complex matrices. 86i:32005
 Sebbar, A. Convergence de certaines séries de Dirichlet à coefficients polynômes. [Convergence of some Dirichlet series with polynomial coefficients] 86i:32006
 Simonsenkov, S. D. On the expansion of holomorphic functions in series of partial fractions. (Russian) 86k:32001

secondary classifications (32A05)

- Das, R. K. On order and type of an entire function represented by double Dirichlet series. 86c:30024
 Henriel, P. Die Lagrange-Bürmannsche Formel bei formalen Potenzreihen. [The Lagrange-Bürmann formula in formal power series] 86d:30007

32A07 Special domains (Reinhardt, Hartogs, tube domains, etc.)

- Azukawa, Kazuo Square-integrable holomorphic functions on a circular domain in C^n . 86b:32002
 Boshinov, Nikolaï S. (with Dimovski, Ivan Khristov) Convolutions, multipliers and commutants connected with multiple Dirichlet expansions. 86a:32003
 Danilov, L. I. Regularity of an acute open cone in R^n . (Russian) 86m:32005
 Dimovski, Ivan Khristov. See Boshinov, Nikolaï S., 86a:32003
 Gong, Sheng Reinhardt domains. I. (Chinese) (Not in MR)
 Marsuq, Maher M. H. Remarks on Bergman spaces over bounded star-shaped circular domains in C^N ($N > 1$). (Arabic summary) 86i:32007
 Patrisio, Giorgio A characterization of complex manifolds biholomorphic to a circular domain. 86j:32002
 Verdera, Joan L^∞ -continuity of Henkin operators solving $\bar{\partial}$ in certain weakly pseudoconvex domains of C^2 . 86f:32002

secondary classifications (32A07)

- Barrett, David E. Holomorphic equivalence and proper mapping of bounded Reinhardt domains not containing the origin. 86j:32052
 Bell, Steven R. Proper holomorphic correspondences between circular domains. 86j:32053
 Curto, Raul E. (with Salinas, Norberto) Spectral properties of cyclic subnormal m -tuples. 86g:47024
 Droshshinov, Yu. N. (with Zav'yalov, B. I.) Comparison theorems of Tauberian type. (Russian) 86e:46034
 See also Vladimirov, V. S. et al., 86f:46042
 Genchev, T. G. Integral representations for functions holomorphic in tube domains. 86b:32004
 Gilligan, Bruce On bounded holomorphic reductions of homogeneous spaces. 86a:32062
 Kosberggenov, S. (with Kytmanov, A. M.) Generalizations of the Schwarz and Riesz-Herglotz formulas in Reinhardt domains. (Russian) 86e:32005
 (with Nikitina, T. N.) Two analogues of Poisson's formulas for functions holomorphic or pluriharmonic in n -circular domains. (Russian) 86j:32006
 Kytmanov, A. M. See Kosberggenov, S., 86e:32005
 Nikitina, T. N. See Kosberggenov, S., 86j:32006
 Pflug, P. About the Carathéodory completeness of all Reinhardt domains. 86b:32026
 Nonextendable holomorphic functions. (Serbo-Croatian summary) (Not in MR)
 Salinas, Norberto. See Curto, Raul E., 86g:47024
 Shimizu, Satoru Complex analytic properties of tubes over locally homogeneous hyperbolic affine manifolds. 86m:32023
 Vladimirov, V. S. (with Droshshinov, Yu. N.; Zav'yalov, B. I.) Theorems of Tauberian type for generalized functions. (Russian) 86f:46042
 Wiegnerinck, Jan J. O. O. Domains with finite-dimensional Bergman space. 86a:32049
 Zav'yalov, B. I. See Droshshinov, Yu. N., 86e:46034 and Vladimirov, V. S. et al., 86f:46042
 Znamenakaya, L. N. (with Znamenakii, S. V.) Conditions for strong linear convexity of Hartogs compacta with curvilinear base. (Russian) 86i:32026
 Znamenakii, S. V. See Znamenakaya, L. N., 86i:32026

32A10 Holomorphic functions

- Amar, Éric Non division dans $A^\infty(\Omega)$. [Nondivision in $A^\infty(\Omega)$] 86g:32002
 Balk, A. M. Computer realization of the method of Newton diagrams. (Russian) 86a:32004
 Bavrta, I. I. Sharpness of strengthened estimates for Schur, Carathéodory and Borel functions in the case of the domain. (Russian. English and Georgian summaries) 86m:32006
 Fichera, Gaetano The Cauchy-Morera theorem for analytic functions of several complex variables. (Italian. English summary) 86a:32005
 Gong, Sheng A remark on a partial differential inequality. (Chinese) 86f:32003
 Khenkin, G. M. (with Polyakov, P. L.) Les zéros des fonctions holomorphes d'ordre fini dans le bidisque. (English summary) [The zeros of holomorphic functions of finite order in the bidisk] 86b:32001
 Matsugu, Yasuo On determining sets for $N(B_n)$ and $HP(B_n)$. 86a:32006a
 On determining sets for $HP(B_n)$. II. 86a:32006b
 Pandeski, N. Interpolating sequences in the unit ball of C^n . (Serbo-Croatian summary) 86k:32002
 Polyakov, P. L. See Khenkin, G. M., 86b:32001

- Slepenchuk, K. M. Representation of an analytic function of two variables by means of an infinite product. (Russian) 86b:32003
 Znamenakii, S. V. Strong linear convexity. I. Duality of spaces of holomorphic functions. (Russian) 86m:32007

secondary classifications (32A10)

- Balashova, O. Yu. Analogue of the Cauchy formula for Banach spaces of holomorphic functions. (Russian) 86b:46038
 Curto, Raul E. (with Muhly, Paul S.) C^* -algebras of multiplication operators on Bergman spaces. 86m:47044
 Dimiev, S. Fonctions presque holomorphes. [Almost holomorphic functions] 86b:53032
 Filippov, V. M. Inhomogeneous systems of convolution equations in the space of holomorphic functions. (Russian. English and Azerbaijani summaries) 86b:46066
 Hirai, Eisuko Sur les fonctions partiellement elliptiques. [On partially elliptic functions] 86a:32008
 Kramer, G. L. Some properties of operators of generalized differentiation and integration in analytic spaces. (Russian. English summary) 86m:47046
 Kumagal, Donna Maximum modulus algebras and multidimensional analytic structure. 86c:46059
 Muhly, Paul S. See Curto, Raul E., 86m:47044
 Mushkarov, Oleg K. L'existence locale de fonctions holomorphes sur des variétés presque complexes. (English summary) [Local existence of holomorphic functions on almost complex manifolds] 86j:53057
 Peetre, Jaak Duality for Fernandez type spaces. 86m:46072
 Rodríguez Cano, José Juan Convolution and analytic functions of a finite number of linear commuting operators of $L(C^n, C^n)$. (Spanish) 86g:47050

32A15 Entire functions

- Agranovich, P. Z. Existence of an entire function in C^{n+1} having a given indicator with respect to an isolated variable. (Russian) 86d:32001
 Aliev, I. A. See Gadzhiev, A. D., 86d:32002
 Berenstein, C. A. (with Struppa, Daniele) Interpolation problems in cones. I. (Italian summary) 86j:32003a
 (with Struppa, Daniele) Interpolation problems in cones. II. (Italian summary) 86j:32003b
 Gadzhiev, A. D. (with Aliev, I. A.) Approximation of entire functions of several variables by exponential sums. (Russian. English and Azerbaijani summaries) 86d:32002
 Gasanova, T. Kh. Weighted inequalities of different metrics for entire functions of several variables. (Russian. English and Azerbaijani summaries) 86c:32001
 Gelfond, A. O. The mean number of roots of systems of holomorphic almost periodic equations. (Russian) 86a:32007
 Napalkov, V. V. Generators in a ring of entire functions and systems of convolution equations. (Russian) 86k:32003
 Ronkin, L. I. The category of growth of the quotient of functions that are holomorphic on an algebraic set. (Russian) 86h:32004
 Struppa, Daniele. See Berenstein, C. A., 86j:32003a and 86j:32003b
 Tararykova, T. V. Estimation of integral forms of entire functions of exponential type in terms of discrete norms. (Russian) 86j:32004
 Ueda, Tetsuo Analytic families of entire functions of finite order. 86m:32008
 Wiegnerinck, Johannes Joseph Oscar Odilla Growth properties of Paley-Wiener functions on C^n . 86b:32002
 ★ Entire functions of Paley-Wiener type in C^n , Radon transforms and problems of holomorphic extension. 86i:32008

secondary classifications (32A15)

- Béivin, Jean-Paul Une généralisation à plusieurs variables d'un résultat de Gelfond. (English summary) [A generalization of a result of Gelfond to several variables] 86f:11053
 Bloom, Thomas On the convergence of interpolating polynomials for entire functions. 86f:32019
 Daoud, S. Bases in the space of entire Dirichlet functions of two complex variables. 86i:46031
 Deheri, G. M. See Kamthan, P. K., 86m:46025
 Dershavets, B. A. Spaces of functions that are analytic in convex domains of C^n and have a prescribed behavior near the boundary. (Russian) 86a:46025
 Systems of partial differential equations in a space of functions analytic in the ball and having a given growth near its boundary. (Russian) 86i:35105
 Dubinskii, Yu. A. The Fourier transformation of analytic functions. The complex Fourier method. (Russian) 86k:46064
 Esterle, J. Mittag-Leffler methods in the theory of Banach algebras and a new approach to Michael's problem. 86a:46056
 Kamthan, P. K. (with Deheri, G. M.) Extended classes of analytic functions of several variables. 86m:46025
 Matos, Mário C. On the Fourier-Borel transformation and spaces of entire functions in a normed space. 86g:46066
 Muradov, V. M. The best polynomial approximation of analytic functions of several complex variables. (Russian. English and Azerbaijani summaries) 86d:32014
 Best approximation in the mean of analytic functions of several complex variables. (Russian. English and Azerbaijani summaries) 86b:32028
 Napalkov, V. V. ★ Уравнения свертки в многомерных пространствах. (Russian) [Convolution equations in multidimensional spaces] 86g:46054
 Wiegnerinck, Johannes Joseph Oscar Odilla A support theorem for Radon transforms on R^n . 86m:44002
 Zampieri, Giuseppe Analytic solvability of certain locally evolutionary operators. (Italian) 86a:35030

32A17 Normal families

secondary classifications (32A17)

- Funahashi, Ken-ichi** Normal holomorphic mappings and classical theorems of function theory. **86b:32029**
- Hahn, Kyong T.** Asymptotic behavior of normal mappings of several complex variables. **86b:32028**

32A20 Meromorphic functions

- Hirai, Etsuko** Sur les fonctions partiellement elliptiques. [On partially elliptic functions] **86a:32008**

secondary classifications (32A20)

- Akhieser, D. N.** Invariant analytic hypersurfaces in complex nilpotent Lie groups. **86b:32050**
- Bedford, Eric** (with Bell, Steven R.) Holomorphic correspondences of bounded domains in \mathbb{C}^n . **86g:32044**
- Bell, Steven R.** See Bedford, Eric, **86g:32044**
- Kazaryan, M. V.** Meromorphic continuation with respect to groups of variables. (Russian) **86c:32008**
- Luttorodt, C. H.** Meromorphic functions, maps and their rational approximants in \mathbb{C}^n . **86i:41014**

32A22 Nevanlinna theory: growth estimates {For geometric theory, see 32H25, 32H30.}

secondary classifications (32A22)

- Charpentier, Philippe** Résolution de l'équation $\bar{\partial}u = f$ et application aux zéros des fonctions holomorphes dans le bidisque. [Solution of the equation $\bar{\partial}u = f$ and application to the zeros of holomorphic functions in the bidisk] **86k:32016**
- Khenkin, G. M.** (with Polyakov, P. L.) Les zéros des fonctions holomorphes d'ordre fini dans le bidisque. (English summary) [The zeros of holomorphic functions of finite order in the bidisk] **86b:32001**
- Molson, Robert E.** Potential theory in Nevanlinna theory and analytic geometry. **86b:32030**
- Polyakov, P. L.** See Khenkin, G. M., **86b:32001**

32A25 Integral representation

- Arapetyan, R. A.** (with Khenkin, G. M.) Integral representations of differential forms on Cauchy-Riemann manifolds and the theory of CR-functions. (Russian) **86b:32003**
- (with Khenkin, G. M.) Integral representations of differential forms on Cauchy-Riemann manifolds and the theory of CR-functions. II. (Russian) **86j:32005**
- Aisenberg, L. A.** Multidimensional analogue of the Carleman formula. (Russian) **86g:32003**
- (with Nazaryan, E. O.) A multidimensional analogue of Carleman's formula with a holomorphic kernel. (Russian) **86k:32004**
- Bruna, Joaquim** (with Cufi, Julià; Verdera, Joan) Cauchy kernels in strictly pseudoconvex domains and an application to a Mergelyan type approximation problem. **86g:32004**
- Chen, Shu Jin** Leary-Stokes formula of polyhedron domain in space \mathbb{C}^n . **86c:32003**
- The Sokhotskiĭ-Plemelj formula of a Cauchy-Fantappiè-type integral. (Chinese. English summary) **86a:32009**
- Cufi, Julià** See Brunu, Joaquim et al., **86g:32004**
- Dolbeault, Pierre** Théorème de Plemelj en plusieurs variables. [The Plemelj theorem in several variables] **86c:32004**
- Gasiev, A.** Some properties of an integral of Martinelli-Bochner type with continuous density. (Russian) **86m:32009**
- Genchev, T. G.** Integral representations for functions holomorphic in tube domains. **86b:32004**
- Khenkin, G. M.** See Arapetyan, R. A., **86b:32003**; **86j:32005** and Polyakov, P. L., **86m:32010**
- Kosberg, S.** (with Kytmanov, A. M.) Generalizations of the Schwarz and Riesz-Herglotz formulas in Reinhardt domains. (Russian) **86c:32005**
- (with Nikitina, T. N.) Two analogues of Poisson's formulas for functions holomorphic or pluriharmonic in n -circular domains. (Russian) **86j:32006**
- Kytmanov, A. M.** See Kosberg, S., **86c:32005**
- Laurent-Thiébaud, Christine** Théorème de Bochner sur une variété de Stein. [Bochner's theorem on a Stein manifold] **86c:32006**
- Lupaciolu, Guido** Integral representations of Cauchy type with conical singular sets. (Italian summary) **86a:32010**
- Nazaryan, E. O.** See Aisenberg, L. A., **86k:32004**
- Nikitina, T. N.** See Kosberg, S., **86j:32006**
- Polyakov, P. L.** (with Khenkin, G. M.) Residue integral formulas and the Radon-Penrose transform for nonclosed forms. (Russian) **86m:32010**
- Solution of the $\bar{\partial}$ -equation with bound in tube domains. (Russian) **86b:32005**
- Verdera, Joan** See Brunu, Joaquim et al., **86g:32004**
- Zhong, Tong De** Singular integrals and singular integral equations on the smooth boundary of an unbounded domain in the space \mathbb{C}^n . (Chinese. English summary) **86b:32005**

secondary classifications (32A25)

- Brackx, Freddy** (with Pinckert, Willy) A Bochner-Martinelli formula for the biregular functions of Clifford analysis. **86d:30076**
- Hamada, Yûsaku** (with Takeuchi, Akira) Le domaine d'existence et le prolongement analytique des solutions des problèmes de Goursat et de Cauchy à données singulières. II. (English summary) [Existence domain and analytic continuation for the solutions of Goursat and Cauchy problems with singular data. II] **86c:35003**

- Ishankulov, T.** Two problems of analytic continuation for functions of several variables. (Russian) **86f:32012**
- Khenkin, G. M.** (with Leiterer, J.) ★ Theory of functions on complex manifolds. **86a:32002**
- Leiterer, J.** See Khenkin, G. M., **86a:32002**
- Lupaciolu, Guido** (with Tomassini, Giuseppe) An extension theorem for CR-functions. (Italian. English summary) **86c:32021**
- Pinckert, Willy** See Brackx, Freddy, **86d:30076**
- Takeuchi, Akira** See Hamada, Yûsaku, **86c:35003**
- Tomassini, Giuseppe** See Lupaciolu, Guido, **86c:32021**

32A27 Local theory of residues [See also 32C30.]

- Talkh, A. K.** Criteria for representability of integrals over cycles by Grothendieck residues. (Russian) **86g:32005**
- (with Yuzhakov, A. P.) Properties of the complete sum of residues with respect to a polynomial mapping, and their applications. (Russian) **86a:32011**
- Yuzhakov, A. P.** Calculation of the complete sum of residues relative to a polynomial mapping in \mathbb{C}^n . (Russian) **86c:32002**
- See also Talkh, A. K., **86a:32011**

32A30 Other generalizations of function theory of one complex variable (should also be assigned at least one classification number from Section 30) {For functions of several hypercomplex variables, see 30G35.}

- Duduchava, R. V.** (with Rodino, Luigi) The Riemann-Hilbert boundary value problem in a bicylinder. (Italian summary) **86m:32011**
- Gérard, R.** (with Ramis, J.-P.) Résidu d'une connexion holomorphe. [Residue of a holomorphic connection] **86b:32006**
- Nikić, M.** GC-functions. (Serbo-Croatian summary) **86k:32005**
- Ramis, J.-P.** See Gérard, R., **86b:32006**
- Rodino, Luigi** See Duduchava, R. V., **86m:32011**
- Sadullaev, A.** A criterion for fast rational approximation in \mathbb{C}^n . (Russian) **86b:32006**

secondary classifications (32A30)

- Aisenberg, L. A.** (with Nazaryan, E. O.) A multidimensional analogue of Carleman's formula with a holomorphic kernel. (Russian) **86k:32004**
- Fruth, Manfred** Liesche Ringe über dem Körper der auf einem Gebiet G des Raumes \mathbb{C}^n meromorphen Funktionen. [Lie rings over the field of functions that are meromorphic on a domain G of the space \mathbb{C}^n] **86b:35026**
- Zur Lösung des Cauchyschen Anfangswertproblems einer Klasse Monge-Ampèrescher Differentialgleichungen mit Vorintegralen und Lie-Reihen. [On the solution of the Cauchy initial value problem of a class of Monge-Ampère differential equations by means of first integrals and Lie series] **86b:35027**
- Kesal, A.** Equations with fixed critical singular points of the type $\omega^m = P_{2m}(z, \omega)$ and their integration. (Russian) **86i:34008**
- Nazaryan, E. O.** See Aisenberg, L. A., **86k:32004**
- Totik, V.** On the approximation of holomorphic functions in the unit ball of \mathbb{C}^n . **86a:32035**
- Znamenskii, S. V.** Strong linear convexity. I. Duality of spaces of holomorphic functions. (Russian) **86m:32007**

32A35 H^p -spaces [See also 32M15, 42B30, 43A85, 46J15.]

- Beitrou, Frank, Jr.** (with Burbea, Jacob) Characterizations of spaces of holomorphic functions in the ball. **86b:32007**
- Burbea, Jacob** See Beitrou, Frank, Jr., **86j:32007**
- Carmichael, Richard D.** H^p spaces in tubes and distributional boundary values. **86j:32006**
- Fefferman, Robert** A note on Carleson measures in product spaces. **86f:32004**
- Helton, J. W.** Optimization, engineering, and a more general Corona theorem. (See **86f:47001**)
- Power, S. C.** Hörmander's Carleson theorem for the ball. **86c:32007**
- Tomaszewski, Bogusław** A construction of inner maps preserving the Haar measure on spheres. **86b:32007**

secondary classifications (32A35)

- Bonami, Aline** See Charpentier, Philippe, **86c:32014**
- Bourgain, J.** The dimension conjecture for polydisc algebras. **86j:46057**
- Applications of the spaces of homogeneous polynomials to some problems on the ball algebra. **86i:46025**
- Carmichael, Richard D.** (with Richters, Stephen P.) Distributional boundary values in \mathcal{D}'_{L^p} . V. **86a:46043**
- Charpentier, Philippe** (with Bonami, Aline) Estimations des (1,1) courants positifs fermés dans les domaines de \mathbb{C}^2 . [Estimates of closed positive (1,1) currents in domains of \mathbb{C}^2] **86c:32014**
- Godefroy, Gilles** Sous-espaces bien disposés de L^1 -applications. (English summary) [Well-located subspaces of L^1 -mappings] **86h:46033**
- Laasalle, Michel** L'espace de Hardy d'un domaine de Reinhardt généralisé. [The Hardy space of a generalized Reinhardt domain] **86g:32049**
- Luecking, Daniel H.** Representation and duality in weighted spaces of analytic functions. **86c:48020**
- MacCluer, Barbara D.** Spectra of automorphism-induced composition operators on $H^p(B_N)$. **86g:47036**
- Compact composition operators on $H^p(B_N)$. **86g:47037**
- Matsugu, Yasuo** On determining sets for $N(B_N)$ and $H^p(B_N)$. **86a:32006a**
- On determining sets for $H^p(B_N)$. II. **86a:32006b**
- Richters, Stephen P.** See Carmichael, Richard D., **86a:46043**

- Shirokov, N. A. Traces of functions from $H^\infty(B^n)$ on some sets of hyperplanes. (Russian. English summary) **86j:46029**
- Singman, David Removable singularities for n -harmonic functions and Hardy classes in polydiscs. **86a:32033**
- Suzuki, Shinji (with Watanabe, Chikara) A note on peak points of Reinhardt domain. **86k:32007**
- Wassermann, Antony Algèbres d'opérateurs de Toeplitz sur les groupes unitaires. (English summary) [Algebras of Toeplitz operators on the unitary groups] **86c:47036**
- Watanabe, Chikara See Suzuki, Shinji, **86k:32007**

32A40 Boundary behavior

- Aleksandrov, A. B. Inner functions on compact spaces. (Russian) **86d:32003**
- Cegrell, Urban On the existence of restricted K -limits. **86i:32009**
- Dahvarshahvili, A. G. Meier's theorem for analytic functions of several variables. (Russian) **86c:32006**
- Meier's theorem, radial limits and the uniqueness theorem for analytic functions of two variables. (Russian) **86b:32008**
- Elgueta, Manuel Holomorphic retractions from convex domains to plane cross sections. **86m:32013**
- Fernández Castillo, M. Asymptotic expansions in several complex variables. (Spanish) **86k:32006**
- Globevnik, Josip A holomorphic function with wild boundary behavior. **86j:32009**
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- Siciak, József Highly noncontinuable functions on polynomially convex sets. **86c:32009**
- Functions that possess the property of strong analytic noncontinuity. (Polish) **86i:32010**
- Suzuki, Shinji (with Watanabe, Chikara) A note on peak points of Reinhardt domain. **86k:32007**
- Tomasini, Giuseppe The algebra of holomorphic functions of finite order. (Italian) **86f:32005**
- Watanabe, Chikara See Suzuki, Shinji, **86k:32007**

secondary classifications (32A40)

- Boas, Harold P. Regularity of the Szegő projection in weakly pseudoconvex domains. **86g:32040**
- Boggess, A. (with Pitts, John) CR extension near a point of higher type. **86k:32013**
- Carmichael, Richard D. H^p spaces in tubes and distributional boundary values. **86j:32006**
- Doktorov, R. Ya. Generalization of the Szegő limit theorem to the multidimensional case. (Russian) **86g:47027**
- Duduchava, R. V. (with Rodino, Luigi) The Riemann-Hilbert boundary value problem in a bicylinder. (Italian summary) **86m:32011**
- Kon, S. H. The maximal ideal space of $H^\infty(B)$ and inner functions. **86c:46043**
- Liu, Shang Ping Distributions in $D'(\mathbb{R}^n)$ as boundary values of harmonic functions. **86b:46066**
- Lupaccholo, Guido (with Tomasini, Giuseppe) An extension theorem for CR-functions. (Italian. English summary) **86c:32021**
- Majima, Hideoyuki Analogues of Cartan's decomposition theorem in asymptotic analysis. **86h:58009**
- Nagel, Alexander Nonisotropic metrics on boundaries of domains of finite type. (See **86f:32001**)
- Pathak, Ram Shankar Tempered ultradistributions as boundary values of analytic functions. **86b:46067**
- Pitts, John See Boggess, A., **86k:32013**
- Rodino, Luigi See Duduchava, R. V., **86m:32011**
- Rudin, Walter Nevanlinna's interpolation theorem revisited. **86d:30050**
- Tamrazov, P. M. Holomorphic functions and mappings in the contour-solid problem. (Russian) **86d:30063**
- Tomasini, Giuseppe See Lupaccholo, Guido, **86c:32021**
- Tomaszewski, Bogusław A construction of inner maps preserving the Haar measure on spheres. **86b:32007**
- Włodarczyk, Kazimierz Bernstein's theorem for polynomial maps of complex topological vector spaces. **86h:46076**

32A45 Hyperfunctions [See also 46F15.]

- Marti, J.-A. Quelques théorèmes d'unicité sur les hyperfonctions analytiques par rapport à une (ou plusieurs) variable(s). [Some uniqueness theorems for analytic hyperfunctions with respect to one (or several) variable(s)] **86h:32006**
- (McFaden, H. H.) See Zharinov, V. V., **86i:32011**
- Zharinov, V. V. Distributive lattices and their applications in complex analysis. **86i:32011**

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- Carmichael, Richard D. (with Richters, Stephen P.) Distributional boundary values in $D'_{\mathbb{C}^n}$. **86a:46043**
- Kawai, Takahiro The Fabry-Ehrenpreis gap theorem for hyperfunctions. **86f:58147**
- Richters, Stephen P. See Carmichael, Richard D., **86a:46043**
- de Roover, J. W. Hyperfunctional singular support of ultradistributions. **86d:46039**
- Saburi, Yutaka Fundamental properties of modified Fourier hyperfunctions. **86k:46065**

32A99 None of the above, but in this section

- Gruman, Lawrence Solutions of difference equations with nonconstant coefficients. **86f:32006**
- Reich, Ludwig Iteration problems in power series rings. (See **86g:58080**)

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- Axler, Sheldon Zero multipliers of Bergman spaces. **86d:46023**
- Burbea, Jacob Positive definiteness and holomorphy. **86f:47009a**
- Lower order positivity and holomorphic operators. **86f:47009b**
- Goodman, Arthur (with Newman, Donald J.) A Wiener type theorem for Dirichlet series. **86a:30005**
- Gregor, J. Interpolation with positive real functions of several variables. **86c:85010**
- Newman, Donald J. See Goodman, Arthur, **86a:30005**
- Srivastava, J. K. Space of analytic functions of several variables over non-Archimedean fields. **86i:46080**
- Theodorou, N. J. (with Tzaferas, Spyros G.) Factorizability conditions for multidimensional polynomials. **86f:93055**
- Tzaferas, Spyros G. See Theodorou, N. J., **86f:93055**

32Bxx Local analytic geometry [See also 13-XX and 14-XX.]

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- Grauert, Hans (with Remmert, R.) ★ Coherent analytic sheaves. **86a:32001**
- Remmert, R. See Grauert, Hans, **86a:32001**
- 32B05 Analytic algebra and generalizations, preparation theorems
- Dubuc, E. J. (with Taubin, Gabriel) Analytic rings. **86j:32011**
- Raimondo, Mario Sur l'anneau des fonctions de Nash complexes. (English summary) [On the ring of complex Nash functions] **86k:32006**
- Ruis Sancho, Jesús M. On Nash algebras. (Spanish. English summary) **86h:32009**
- Taubin, Gabriel See Dubuc, E. J., **86j:32011**
- Wachta, Krystyna Sur la factorisation d'une fonction plate en l'origine. [Factorization of a function flat at the origin] **86m:32013**

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- Maset, Pierre ★ Analytic sets in locally convex spaces. **86i:32012**
- Raimondo, Mario An algebraic property for Nash rings. (Italian summary) **86a:32025**
- Recio Muñoz, Tomás J. Orders on real algebraic sets and analytic germs. **86d:12016**

32B10 Germs of analytic sets

- Bochnak, Jacek (with Kuchars, Wojciech) Local algebraicity of analytic sets. **86c:32010**
- Krasinski, Tadeusz Multiplicity of zeros of mappings with several variables. (Polish) **86j:32012**
- Kuchars, Wojciech See Bochnak, Jacek, **86c:32010**
- Maset, Pierre ★ Analytic sets in locally convex spaces. **86i:32012**
- Mostowski, Tadeusz Topological equivalence between analytic and algebraic sets. (Russian summary) **86h:32010**
- Ploeki, Arkadiusz Une évaluation pour les sous-ensembles analytiques complexes. (English and Russian summaries) [An estimate for complex analytic subsets] **86c:32011**
- Ruis, Jesús M. A note on a separation problem. **86f:32007**
- Spallek, K. Produktzerlegung und Äquivalenz von Raumkeimen. I, II. [Product decomposition and equivalence of germs of spaces. I, II] **86a:32012**

secondary classifications (32B10)

- Izumi, Shiso Inequalities for orders on a rational singularity of a surface. **86b:32011**
- Malgrange, B. Polynômes de Bernstein-Sato et cohomologie évanescence. [The Bernstein-Sato polynomials and vanishing cohomology] **86f:58146**
- Puerta Sales, Fernando Equivariant deformation of germs of analytic spaces. (Catalan. English summary) (See **86g:00012a**)

32B15 Analytic subsets of affine space

- Tancredi, A. A remark on C -analytic subsets. (Italian. English summary) **86b:32009**

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- Dimca, Alexandru (with Rosian, Rodica) The Samuel stratification of the discriminant in Whitney regular. **86j:32026**
- Korevaar, J. (with Wiegierinck, Johannes Joseph Oscar Odilia; Zeinstra, R.) Minimal area of zero sets in tube domains of \mathbb{C}^2 . **86g:32013**
- Rosian, Rodica See Dimca, Alexandru, **86j:32026**
- Wiegierinck, Johannes Joseph Oscar Odilia See Korevaar, J. et al., **86g:32013**
- Zeinstra, R. On a question concerning zero sets of minimal area in domains of \mathbb{C}^2 . **86g:32013**
- See also Korevaar, J. et al., **86g:32013**

32B20 Semi-analytic sets and subanalytic sets

- Bierstone, Edward (with Schwarz, Gerald W.) Continuous linear division and extension of C^∞ functions. **86b:32010**
- Delort, Jean-Marc Une propriété de borne uniforme pour la mesure d'une chaîne résolvant un bord sous-analytique. (English summary) [A uniform boundedness property for the measure of a chain resolving a subanalytic boundary] **86j:32013**
- Demkowicz, Zofia (with Wachta, Krystyna) La sous-analyticité de l'application tangente. (English and Russian summaries) [Subanalyticity of the tangent map] **86a:32013**
- (with Łojasiewicz, Stanisław; Stasica, Jacek) Sur le nombre des composantes connexes de la section d'un sous-analytique. (English and Russian summaries) [On the number of connected components of the section of a subanalytic set] **86a:32014**
- (with Stasica, Jacek) Sur la stratification sous-analytique. (English and Russian summaries) [On subanalytic stratification] **86a:32015**
- (with Kurdyka, K.) Une propriété métrique des fibres d'un sous-analytique. (English summary) [A metric property of the fibers of a subanalytic set] **86h:32011**
- Hardt, Robert Some analytic bounds for subanalytic sets. **86c:32003**

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See also Denkowski, Zofia et al., 86a:32014

Pawłucki, Wiesław Sur les points réguliers d'un ensemble semi-analytique. (English and Russian summaries) [Regular points of a semianalytic set] 86j:32014

Le théorème de Puiseux pour une application sous-analytique. (English and Russian summaries) [The Puiseux theorem for a subanalytic mapping] 86j:32015

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Lojasiewicz, Stanisław, Jr. (with Sussmann, H. J.) Some examples of reachable sets and optimal cost functions that fail to be subanalytic. 86j:49007

Orro, Patrice (with Trotman, David) Sur les fibres de Nash de surfaces à singularités isolées. (English summary) [On the Nash fibres of surfaces with isolated singularities] 86d:58003

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Verona, Andrei ★ Stratified mappings—structure and triangulability. 86k:58010

32B30 Local singularities [See also 14B05, 32C40, 32C42.]

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[Effective contribution of monodromy to asymptotic expansions] 86i:32013

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Giusti, M. (with Merle, M.) Singularités isolées et sections planes de variétés déterminantielles. I. Singularités isolées et nuages de Newton. [Isolated singularities and plane sections of determinantal varieties. I. Isolated singularities and Newton clouds] 86a:32012

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Ploski, Arkadiusz Sur l'exposant d'une application analytique. I. (English and Russian summaries) [On the exponent of an analytic mapping. I] 86j:32025a

Sur l'exposant d'une application analytique. II. (English and Russian summaries)

[On the exponent of an analytic mapping. II] 86j:32025b

Saito, Morihiko Supplement to: "Gauss-Manin system and mixed Hodge structure" [Proc. Japan Acad. Ser. A Math. Sci. 58 (1982), no. 1, 29-32; MR 83f:14006]. 86a:32029

Silva, Alessandro See Andreatta, Marco, 86b:32013

Tomari, Masataka A p_g -formula and elliptic singularities. 86h:14029

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32B99 None of the above, but in this section

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Ferroni, M. (with Rizza, Giovanni Battista) Contact problems and Levi-like expressions. (Italian summary) 86g:32032

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32Cxx General theory of analytic spaces

32C05 Real-analytic manifolds, real-analytic spaces [See also 14G30, 58A07.]

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- Denkowska, Zofia (with Wachta, Krystyna) La sous-analyticité de l'application tangente. (English and Russian summaries) [Subanalyticity of the tangent map] **86a:32013**
 (with Łojasiewicz, Stanisław; Stasica, Jacek) Sur le nombre des composantes connexes de la section d'un sous-analytique. (English and Russian summaries) [On the number of connected components of the section of a subanalytic set] **86a:32014**
 (with Stasica, Jacek) Sur la stratification sous-analytique. (English and Russian summaries) [On subanalytic stratification] **86a:32015**
- Efremson, Gustave Research announcement on extending Nash functions off singular curves. **86i:54006**
- Łojasiewicz, Stanisław (with Wachta, Krystyna) Séparation régulière avec un paramètre pour les sous-analytiques. (English and Russian summaries) [Regular separation with a parameter for subanalytic sets] **86a:32016**
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- Łojasiewicz, Stanisław, Jr. Sur les trajectoires du gradient d'une fonction analytique. [Trajectories of the gradient of an analytic function] **86m:58023**
- Mostowski, Tadeusz Topological equivalence between analytic and algebraic sets. (Russian summary) **86h:32010**
- Orro, Patrice (with Trotman, David) Sur les fibres de Nash de surfaces à singularités isolées. (English summary) [On the Nash fibres of surfaces with isolated singularities] **86d:58003**
- Raimondo, Mario Sur l'anneau des fonctions de Nash complexes. (English summary) [On the ring of complex Nash functions] **86k:32008**
- Ruis Sancho, Jesús M.^a On Nash algebras. (Spanish. English summary) **86h:32009**
- Stasica, Jacek See Denkowska, Zofia et al., **86a:32014** and **86a:32015**
- Tognoli, A. Une remarque sur les cycles analytiques des groupes de Lie. (Italian summary) [Remark on the analytic cycles of Lie groups] **86c:57037**
- Trotman, David See Orro, Patrice, **86d:58003**
- Wachta, Krystyna See Denkowska, Zofia, **86a:32013** and Łojasiewicz, Stanisław, **86a:32016**

32C10 Complex manifolds [For almost complex manifolds, see 53C15.]

- Graham, Ian (with Wu, Hung Hai) Characterizations of the unit ball B^n in complex Euclidean space. **86g:32010**
- Peternell, Thomas A rigidity theorem for $P_3(\mathbb{C})$. **86h:32018**
- Varouchas, J. Stabilité de la classe des variétés kählériennes par certains morphismes propres. [Stability of the class of Kähler manifolds under certain proper morphisms] **86a:32026**
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- Bando, Shigetoshi On the classification of three-dimensional compact Kaehler manifolds of nonnegative bisectional curvature. **86i:53042**
- Beauville, Arnaud Variétés Kähleriennes dont la première classe de Chern est nulle. [Kähler manifolds whose first Chern class is zero] **86c:32030**
- Cerveau, Dominique (with Mattei, Jean-François) Formes intégrables holomorphes singulières. (French) [Singular holomorphic integrable forms] **86f:58006**
- Donaldson, S. K. 4-manifolds with indefinite intersection form. **86m:57037**
- Mattei, Jean-François See Cerveau, Dominique, **86f:58006**
- Peternell, Thomas Fast-positive Geradenbündel auf kompakten komplexen Mannigfaltigkeiten. [Almost positive line bundles on compact complex manifolds] **86f:32031**
- Takahashi, Takao Structures on the Brieskorn manifolds. I. **86h:53036**
- Tsuji, Hajime Complex structures on $S^3 \times S^3$. **86c:32033**
- Tyurin, A. N. Local and global invariants of a four-dimensional pseudo-Riemannian manifold. (Russian) **86c:53026**
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- Goresky, R. Mark (with MacPherson, Robert) Morse theory and intersection homology theory. **86i:32019**
- Gurjar, R. V. (with Shastri, A. R.) The fundamental group at infinity of affine surfaces. **86a:14008**
- Imayoshi, Yochi Holomorphic maps of compact Riemann surfaces into 2-dimensional compact C -hyperbolic manifolds. **86h:32044**
- MacPherson, Robert See Goresky, R. Mark, **86i:32019**
- Shastri, A. R. See Gurjar, R. V., **86a:14008**

32C20 Normal analytic spaces

- Bingener, Jürgen (with Flenner, Hubert) Variation of the divisor class group. **86j:32020**
- Flenner, Hubert See Bingener, Jürgen, **86j:32020**

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- Gross, Daniel Compact quotients by C^* -actions. **86a:32061**

32C25 Analytic subsets and submanifolds

- Campana, F. Le théorème sur les limites d'ensembles analytiques de E. Bishop. [E. Bishop's theorem on the limits of analytic sets] **86i:32015**
- Korevaar, J. (with Wiegierinck, Johannes Joseph Oscar Odilia; Zeinstra, R.) Minimal area of zero sets in tube domains of \mathbb{C}^2 . **86g:32013**
- Tognoli, A. Approximation des variétés différentiables par des variétés analytiques et algébriques. (English and Italian summaries) [Approximating differentiable manifolds by analytic and algebraic manifolds] **86g:32011**
- Wiegierinck, Johannes Joseph Oscar Odilia See Korevaar, J. et al., **86g:32013**
- Zeinstra, R. On a question concerning zero sets of minimal area in domains of \mathbb{C}^2 . **86g:32012**

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- Chirka, E. M. ★Комплексные аналитические множества. (Russian) [Complex analytic sets] **86i:32002**
- Forster, Otto Nicht endlich erzeugte Primideale in Steinschen Algebren. (English summary) [Prime ideals that are not finitely generated in Stein algebras] **86j:32035**
- Khovanov, A. G. Real analytic manifolds with the property of finiteness, and complex abelian integrals. (Russian) **86a:32024**
- Kraśinski, Tadeusz Multiplicity of zeros of mappings with several variables. (Polish) **86j:32012**

32C30 Integration on analytic sets and spaces, currents [For local theory, see 32A25 or 32A27.]

- Barlet, D. Le théorème d'intégration sur un ensemble analytique complexe de P. Lelong. [P. Lelong's theorem on integration over a complex analytic set] **86j:32021**
- Ben Masmoud, Hédi Courants intermédiaires associés à un courant positif fermé. [Intermediate currents associated with a closed positive current] **86h:32019**
- Bonami, Aline See Charpentier, Philippe, **86c:32014**
- Charpentier, Philippe (with Bonami, Aline) Estimations des (1,1) courants positifs fermés dans les domaines de \mathbb{C}^2 . [Estimates of closed positive (1,1) currents in domains of \mathbb{C}^2] **86c:32014**
- Demally, J.-P. Sur la structure des courants positifs fermés. [The structure of closed positive currents] **86f:32009**
- El Amrani, Mohammed Singularités des fonctions obtenues par intégration sur la fibre $X^2 - Y^3 = s$, et identités modulaires. (English summary) [Singularities of functions obtained by integration on the fiber $X^2 - Y^3 = s$, and modular identities] **86j:32022**
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- Khenkin, G. M. (with Polyakov, P. L.) Les zéros des fonctions holomorphes d'ordre fini dans le bidisque. (English summary) [The zeros of holomorphic functions of finite order in the bidisk] **86b:32001**
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- Polyakov, P. L. See Khenkin, G. M., **86b:32001**
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- Ronkin, L. I. Weak convergence of the currents $[dd^c u_i]^q$, and asymptotic behavior of order functions for holomorphic mappings of regular growth. (Russian) **86f:32027**
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- Forster, Otto Cohomological methods in complex analysis. (See **86h:30001a**)
- Jurchescu, M. (with Tancredi, A.) Transversality and relative Künneth formulas in complex analysis. **86d:32009**
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- Tancredi, A. See Jurchescu, M., **86d:32009**
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- Bailey, T. N. Twisters and fields with sources on worldlines. **86h:81000**
- Barth, Wolf Paul Report on vector bundles. **86k:14012**
- Bingener, Jürgen (with Flenner, Hubert) Variation of the divisor class group. **86j:32020**
- Cerbé, Attilia A remark on the structure of sheaves for which Theorem A holds. (Italian) **86c:32037**
- Coltoiu, Mihnea The Levi problem for cohomology classes. (French summary) **86a:32040**
- Flenner, Hubert Restrictions of semistable bundles on projective varieties. **86m:14014**
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- Fujimoto, Yoshihisa (with Noumi, Masatoshi) Vanishing of the cohomology groups in the infinite direct sum $\sum \mathbb{C}$. **86a:46049**
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- Kersten, M. Der Residuenkomplex in der lokalen algebraischen und analytischen Geometrie. [The residue complex in local algebraic and analytic geometry] 86a:14015
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 Struppa, Daniele (with Turrini, Cristina) A duality theorem for complex manifolds. 86m:32016
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32C38 Sheaves of differential operators and their modules [See also 35A27, 58G07.]

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- Arnol'd, V. I. (with Varchenko, A. N.; Gusein-Zade, S. M.) ★ Особенности дифференцируемых отображений. II. (Russian) [Singularities of differentiable mappings. II] 86m:58026
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- Teranishi, Yasuo Relative invariants and b -functions of prehomogeneous vector spaces ($G \times GL(d_1, \dots, d_r), \tilde{p}_1, M(n, C)$). **86j:20039**
- Varchenko, A. N. (with Chmutov, S. V.) On the tangent cone to the stratum $\mu = \text{const.}$ (Russian) **86h:32034**
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- Yamamoto, Makoto Infinitely many fibred links having the same Alexander polynomial. **86m:57011**

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- Dimca, Alexandru (with Rosian, Rodica) The Samuel stratification of the discriminant is Whitney regular. **86j:32028**
- Goresky, R. Mark (with MacPherson, Robert) Morse theory and intersection homology theory. **86i:32019**
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- King, Henry Churchill Topological invariance of intersection homology without sheaves. **86m:55010**
- Lê Dũng Tráng (with Teissier, B.) Cycles evanescentes, sections planes et conditions de Whitney. II. (English summary) [Vanishing cycles, plane sections and Whitney conditions. II] **86c:32005**
- MacPherson, Robert (with Vilonen, Kari) Construction élémentaire des faisceaux pervers. (English summary) [Elementary construction of perverse sheaves] **86g:32014**
- Spallek, K. Produktzerlegung und Äquivalenz von Raumkeimen. I, II. [Product decomposition and equivalence of germs of spaces. I, II] **86a:32012**
- Suzuki, Masahiko The stratum with constant Milnor number of a mini-transversal family of a quasihomogeneous function of corank two. **86a:32022**
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32C45 Modifications, resolution of singularities [See also 14E15.]

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- (with Vo Van Tan) On the blowing down problem in C -analytic geometry. **86h:32025**
- Bariet, D. Éclatement d'un point dans C^n . [Blowing-up of a point in C^n] **86i:32056d**
- Varouchas, J. Éclatement d'un point dans une variété. [Blowing-up of a point in a variety] **86i:32056e**
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- Di Stefano, F. (with Zanoboni, S.) Real simple singularities of surfaces. (Italian summary) **86h:32013**
- Manoukian, E. B. Distributional zero-mass limit of renormalized Feynman amplitudes in Minkowski space. (Italian summary) **86j:81114**
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- Vo Van Tan On the classification problem for q -convex spaces. **86f:32022**
- Zanoboni, S. See Di Stefano, F., **86h:32013**

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- Maset, Pierre ★ Analytic sets in locally convex spaces. **86i:32012**
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- Verdier, Jean-Louis Spécialisation de faisceaux et monodromie modérée. [Specialization of sheaves and tempered monodromy] **86f:32010**

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- Pflug, P. Nonextendable holomorphic functions. (Serbo-Croatian summary) (Not in MR)
- Shon, Kwang Ho See Ohgai, Seiko, **86b:32015**
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- Wong, Bun See Mok, Ngaiming, **86b:32014**
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- Watanabe, Kiyoshi See Fukushima, Yukio, **86i:32020**

32D15 Continuation of analytic objects

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- Demally, J.-P. Sur la propagation des singularités des courants positifs fermés. (English summary) [On the propagation of singularities of closed positive currents] **86k:32013**
- Elin, M. M. Multidimensional analogue of the Hurwitz composition. (Russian) **86j:32029**
- El Mir, Hassine Sur le prolongement des courants positifs fermés. [On the extension of closed positive currents] **86m:32020**
- Fukushima, Yukio Continuation of holomorphic mappings allowing singularities in a given set. **86a:32031**
- Gay, Roger (with Sebbar, A.) Division et extension dans l'algèbre $A^\infty(\Omega)$ d'un ouvert pseudo-convexe à bord lisse de C^n . [Division and extension in the algebra $A^\infty(\Omega)$ of a pseudoconvex open subset of C^n with smooth boundary] **86c:32020**
- Hill, C. Denson (with Taiani, G.) On the Hans Lewy extension phenomenon in higher codimension. **86d:32012**
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- Lupaccolu, Guido (with Tomassini, Giuseppe) An extension theorem for CR-functions. (Italian. English summary) **86a:32021**
- Maignot, Stéphane Sur l'extension des fonctions CR. (English summary) [On the extension of CR functions] **86k:32014**
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- Odvirko-Budko, B. I. A method for analytic continuation of functions of several complex variables. (Russian) **86d:32015**
- Pitta, John See Bogges, A., **86k:32012**
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- Straube, Emil J. CR-distributions and analytic continuation at generating edges. **86g:32019**
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- Trépreau, Jean-Marie Sur le prolongement holomorphe des fonctions CR définies sur une hypersurface réelle de classe C^2 dans C^n . (English summary) [Analytic extension of CR functions defined on a C^2 real hypersurface of C^n] **86j:32030**

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- Bedford, Eric (with Bell, Steven R.) Extension of proper holomorphic mappings past the boundary. **86h:32041**
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- Coltoiu, Mihnea The Levi problem for cohomology classes. (French summary) **86a:32040**
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- Elgueta, Manuel Holomorphic retractions from convex domains to plane cross sections. **86m:32012**
- Martines, André Prolongement des solutions holomorphes de problèmes aux limites. [Extension of holomorphic solutions of boundary value problems] **86i:35004**
- Maset, Pierre ★ Analytic sets in locally convex spaces. **86i:32012**
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- Pinchuk, S. I. Analytic extension of mappings and holomorphic equivalence problems in C^n . (Russian) **86m:32002**

32D20 Removable singularities

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- Fornæss, John Erik See Diederich, Klas, **86g:32020**
- Polk, J. C. A survey of removable singularities. **86f:32013**
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- Nguyen Van Khue Riemann domains over Stein spaces. **86m:32022**

32D25 Non-Archimedean function theory

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- Motkin, Elhanan L'arbre d'un quasi connexe: un invariant conforme p -adique. (English summary) [The tree of a quasiconnected set: a p -adic conformal invariant] **86g:11059**

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- Forster, Otto A finiteness theorem for the hypersurfaces of a compact complex space. (Italian) **86a:32033**
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- Colombeau, J.-F. (with Galé, J. E.) Holomorphic generalized functions. **86b:46071**
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32Exx Holomorphic convexity

32E05 Holomorphically convex complex spaces, reduction theory

- Stout, Edgar Lee Algebraic domains in Stein manifolds. **86c:32023**

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- O'Farrell, A. G. (with Preskenis, K. J.; Walsh, D.) Holomorphic approximation in Lipschitz norms. **86c:32015**
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- Trépreau, Jean-Marie Sur le prolongement holomorphe des fonctions CR définies sur une hypersurface réelle de classe C^2 dans C^n . (English summary) [Analytic extension of CR functions defined on a C^2 real hypersurface of C^n] **86j:32030**
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32G05 Deformations of complex structures [See also 13D10, 16A58, 58H10, 58H15.]

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- Takegoshi, Keneshi Stability of Kähler metrics in deformations of noncompact complex manifolds of dimension two. **86d:32021**

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- Lange, Herbert Universal families of extensions. **86e:14006**
- Pascual Gainza, Pere See Guillén Santos, F., (**86g:00012a**)
- Uss, Takashi On obstructions of infinitesimal lifting. **86b:14008**
- Wehler, Joachim Moduli space and versal deformation of stable vector bundles. **86i:32054**

32G07 Deformations of special (e.g. CR) structures

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32G10 Deformations of submanifolds and subspaces

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- Semiuniversal deformation of the germ of the n coordinate axes of C^n . (Catalan. English summary) (See **86g:00012a**)
- Guillén Santos, F. (with Navarro Aznar, Vicente) Deformations of analytic Gorenstein singularities of codimension 3. (Spanish. English summary) (See **86h:00009a**)
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- Nakamura, Iku Infinitesimal deformations of cusp singularities. **86b:14001**
- Naruki, Iao Research on singular points using computers. (Japanese) **86m:14023**
- Saito, Kyoji Extended affine root systems. I. Coxeter transformations. **86m:17023**
- Varchenko, A. N. (with Gusein-Zade, S. M.) Topology of caustics, wave fronts and degeneration of critical points. (Russian) **86h:32024**

32G13 Analytic moduli problems [For algebraic moduli problems, see 14D20.]

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- On the Douady space of a compact complex space in the category \mathcal{C} . II. **86j:32048**
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- Harris, Joseph Daniel An introduction to infinitesimal variations of Hodge structures. **86i:32020**
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- Donaldson, S. K. Nahm's equations and the classification of monopoles. **86e:58039**
- Instantons and geometric invariant theory. **86m:32043**
- Green, Mark Koszul cohomology and the geometry of projective varieties. II. **86j:14011**
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- Sterk, Hans Finiteness results for algebraic $K3$ surfaces. **86j:14038**
- Usui, Sampel Torelli problem for surfaces of general type. **86h:14032**
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32G15 Moduli of Riemann surfaces, Teichmüller theory [See also 14H15, 30Fxx.]

- Abikoff, W. The bounded model for hyperbolic 3-space and a quaternionic uniformization theorem. **86a:32045**
 ★ Вещественно аналитическая теория пространств Тейхмюллера. (Russian) [The real analytic theory of Teichmüller space] **86m:32038**
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32G20 Period matrices [See also 14H05.]

- Cattani, Eduardo H. (with Kaplan, Aroldo) Sur la cohomologie L_2 et la cohomologie d'intersection à coefficients dans une variation de structure de Hodge. (English summary) [The L_2 -cohomology and the intersection cohomology of a variation of Hodge structures] **86d:32024**
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- Arbarello, E. (with De Concini, Corrado) On a set of equations characterizing Riemann matrices. **86a:14025**
 Catanese, Fabrizio M. E. Infinitesimal Torelli theorems and counterexamples to Torelli problems. (See **86b:14004**)
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 Zucker, Steven M. Degeneration of Hodge bundles (after Steenbrink). (See **86b:14004**)

32G99 None of the above, but in this section

- Kostov, V. P. Versal deformations of differential forms of degree α on the line. (Russian) **86g:32039**

32Hxx Holomorphic mappings

32H05 Representative domains

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 Nassif, M. (with Adepoju, J. A.) Effectiveness of product of simple sets of polynomials of two complex variables in polycylinders and in Faber regions. **86c:32028**

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- Kanemaru, Tadayoshi Note on Bergman representative domains. **86i:32046**
 Invariants related to the Bergman kernel of a bounded domain in C^n . **86b:32025**

32H10 Bergman kernel function

- Azukawa, Kazuo Bergman metric on a domain of Thullen type. **86a:32048**
 Bedford, Eric Action of the automorphisms of a smooth domain in C^n . **86c:32029**
 Boas, Harold P. Regularity of the Szegő projection in weakly pseudoconvex domains. **86g:32040**
 Kanemaru, Tadayoshi Note on Bergman representative domains. **86i:32046**
 Invariants related to the Bergman kernel of a bounded domain in C^n . **86b:32025**
 Komatsu, Gen (with Ozawa, Shin) Variation of the Bergman kernel by cutting a hole. **86h:32037**
 Ligocka, Ewa The Hölder continuity of the Bergman projection and proper holomorphic mappings. **86c:32030**
 Ohsawa, Takeo Boundary behavior of the Bergman kernel function on pseudoconvex domains. **86d:32025**
 Ozawa, Shin See Komatsu, Gen, **86h:32037**
 Peetre, Jaak A reproducing kernel. (Italian summary) **86c:32025**
 Wiegner, Jan J. O. O. Domains with finite-dimensional Bergman space. **86a:32049**

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- Azukawa, Kazuo An intrinsic fibre metric on the n th symmetric tensor power of the tangent bundle. **86m:53079**
 Bell, Steven R. Boundary behavior of proper holomorphic mappings between nonpseudoconvex domains. **86a:32054**
 Luecking, Daniel H. Representation and duality in weighted spaces of analytic functions. **86c:46020**
 Masur, T. (with Pflug, P.; Skwarczyński, M.) Invariant distances related to the Bergman function. **86i:32047**
 Pflug, P. See Masur, T. et al., **86i:32047**
 Skwarczyński, M. See Masur, T. et al., **86i:32047**
 Susuki, Masaaki The generalized Schwarz lemma for the Bergman metric. **86i:32048**
 Woiniewicz, T. M. Inclusion operators in Bergman spaces on bounded symmetric domains in C^n . **86f:32039**

32H15 Invariant metrics and pseudodistances

Chi, Dong Pyo (with Lee, Il Hae; Lee, Sa Ge; Kim, Sang Moon) The invariant distance defined by positive plurisubharmonic functions. **86a:32050**

Fletcher, Evan Contractions of invariant Finsler forms on the classical domains. **86d:32026**

Graham, Ian (with Wu, Hung Hsi) Some remarks on the intrinsic measures of Eisenman. **86e:32051**

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Lee, Sa Ge See Chi, Dong Pyo et al., **86a:32050**

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Perrone, Domenico Remarks on intrinsic distances associated with flat affine structures. (Italian summary) **86g:32042**

Pflug, P. About the Carathéodory completeness of all Reinhardt domains. **86b:32026**

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Stachura, Adam (with Sekowski, Tadeusz) Projection and symmetry in the unit ball of Hilbert space with hyperbolic metric. (Russian summary) **86e:32032**

Suzuki, Masaaki The intrinsic metrics on the domains in C^n . **86a:32051**

The intrinsic metrics on the circular domains in C^n . **86b:32027**

The generalised Schwarz lemma for the Bergman metric. **86i:32048**

Tsagas, Grigorio The Kobayashi pseudodistance for Siegel domains. **86h:32038**

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Vigué, Jean-Pierre Géodésiques complexes et points fixes d'applications holomorphes. [Complex geodesics and fixed points of holomorphic mappings] **86d:32027**

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(English summary) [Fixed points of holomorphic mappings in a bounded convex domain in C^n] **86f:32028**

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Asakawa, Kazuo Square-integrable holomorphic functions on a circular domain in C^n . **86h:32002**

Hahn, Kyong T. Asymptotic behavior of normal mappings of several complex variables. **86b:32028**

Krushkal, S. L. Invariant metrics on spaces of closed Riemann surfaces. (Russian) **86j:32050**

Kucsumow, T. Nonexpansive retracts and fixed points of nonexpansive mappings in the Cartesian product of n Hilbert balls. **86j:47081**

Stachura, Adam Iterates of holomorphic self-maps of the unit ball in Hilbert space. **86b:47117**

Zaldenberg, M. G. Hyperbolic imbedding of complements to divisors and the limit behavior of the Kobayashi-Royden metric. (Russian) **86k:32021**

32H20 Hyperbolic complex manifolds

Grauert, Hans (with Peternell, Ulrike) Hyperbolicity of the complement of plane curves. **86h:32039**

Hahn, Kyong T. Asymptotic behavior of normal mappings of several complex variables. **86b:32028**

Iaidro, José M. (with Vigué, Jean-Pierre) The group of biholomorphic automorphisms of symmetric Siegel domains and its topology. **86h:32040**

Nakajima, Kasufumi Homogeneous hyperbolic manifolds and homogeneous Siegel domains. **86m:32041**

Peternell, Ulrike See Grauert, Hans, **86h:32039**

Vesentini, Edoardo Fixed points of holomorphic maps. **86e:32033**

Vigué, Jean-Pierre See Iaidro, José M., **86h:32040**

Zaldenberg, M. G. Hyperbolic imbedding of complements to divisors and the limit behavior of the Kobayashi-Royden metric. (Russian) **86k:32021**

secondary classifications (32H20)

Funahashi, Ken-ichi Normal holomorphic mappings and classical theorems of function theory. **86b:32029**

Graham, Ian (with Wu, Hung Hsi) Some remarks on the intrinsic measures of Eisenman. **86e:32051**

Noguchi, Junjiro Hyperbolic fibre spaces and Mordell's conjecture over function fields. **86k:32022**

Shiga, Kiyoshi Hadamard manifolds. **86h:53051**

Wu, Hung Hsi See Graham, Ian, **86e:32051**

32H25 Picard-type theorems and generalizations {For function-theoretic properties, see 32A22.}

Funahashi, Ken-ichi Normal holomorphic mappings and classical theorems of function theory. **86b:32029**

Noguchi, Junjiro Hyperbolic fibre spaces and Mordell's conjecture over function fields. **86k:32022**

secondary classifications (32H25)

Valeman, Isu A Schwarz lemma for complex surfaces. **86a:53071**

32H30 Value distribution theory in higher dimensions {For function-theoretic properties, see 32A22.}

Biancofiore, Aldo A defect relation for linear systems on compact complex manifolds. **86a:32052**

Csajka, Konrad Some theorems of Picard type for complex algebraic manifolds. (Russian summary) **86j:32051**

(King, James R.) See Shabat, B. V., **86k:32023**

(Leifman, Lev J.) See Shabat, B. V., **86k:32023**

Molson, Robert E. Potential theory in Nevanlinna theory and analytic geometry. **86b:32030**

Noguchi, Junjiro On the value distribution of meromorphic mappings of covering spaces over C^m into algebraic varieties. **86g:32043**

Ronkin, L. I. Weak convergence of the currents $[dd^c u_i]^q$, and asymptotic behavior of order functions for holomorphic mappings of regular growth. (Russian) **86f:32027**

Shabat, B. V. ★ Distribution of values of holomorphic mappings. **86k:32023**

Yu, Qi Huang Holomorphic maps and conformal transformations on Hermitian manifolds. (See **86m:53002**)

secondary classifications (32H30)

Funahashi, Ken-ichi Normal holomorphic mappings and classical theorems of function theory. **86b:32029**

Gelfond, A. O. The mean number of roots of systems of holomorphic almost periodic equations. (Russian) **86a:32007**

Ligočka, Ewa The Hölder continuity of the Bergman projection and proper holomorphic mappings. **86e:32030**

Nilno, Kiyoshi Deficiency sum of holomorphic curves of lower order less than one. **86d:30048**

General defect relations of holomorphic curves. **86d:30049**

Petrenko, V. P. ★ Лиценз. (Russian) [Entire curves] **86j:30044**

Savchuk, Ya. I. On the inverse problem of the theory of distribution of the values of entire and analytic curves. (Russian) **86j:30045**

32H35 Proper mappings, finiteness theorems

Barrett, David E. Holomorphic equivalence and proper mapping of bounded Reinhardt domains not containing the origin. **86j:32052**

Bedford, Eric (with Bell, Steven R.) Holomorphic correspondences of bounded domains in C^n . **86g:32044**

Proper holomorphic mappings from domains with real analytic boundary.

86a:32053

(with Bell, Steven R.) Extension of proper holomorphic mappings past the boundary. **86h:32041**

Bell, Steven R. Boundary behavior of proper holomorphic mappings between nonpseudoconvex domains. **86a:32054**

Proper holomorphic correspondences between circular domains. **86j:32053**

See also Bedford, Eric, **86g:32044** and **86h:32041**

Chądzynski, Jacek On the maximum principle for the quotient of norms of mappings. **86a:32055**

Derridj, M. Le principe de réflexion en des points de faible pseudo convexité, pour des applications holomorphes propres. [The reflection principle at points of weak pseudoconvexity for proper holomorphic mappings] **86f:32028**

Dini, Gilberto (with Primicerio, Angela Selvaggi) Applications holomorphes propres de type polynomial pour une classe de domaines de Reinhardt. (English summary) [Proper polynomial holomorphic mappings for a class of Reinhardt domains] **86f:32029**

Gruman, Lawrence Ensembles exceptionnels pour les applications holomorphes dans C^n . [Exceptional sets for holomorphic mappings in C^n] **86h:32042**

Mok, Ngaiming Application of an extension theorem for closed positive currents to Kähler geometry. **86j:32054**

Nahikawa, Seiki On the holomorphic equivalence of bounded domains in complete Kähler manifolds of nonpositive curvature. (See **86m:53002**)

Nishimura, Yasuhiro Applications holomorphes injectives de C^2 dans lui-même qui exceptent une droite complexe. [Injective holomorphic mappings of C^2 into itself which omit a complex line] **86h:32043**

Primicerio, Angela Selvaggi See Dini, Gilberto, **86f:32029**

secondary classifications (32H35)

Behrens, Mechthild Plurisubharmonic defining functions of weakly pseudoconvex domains in C^2 . **86g:32026**

Forster, Otto Nicht endlich erzeugte Primideale in Steinischen Algebren. (English summary) [Prime ideals that are not finitely generated in Stein algebras] **86j:32035**

Noguchi, Junjiro Hyperbolic fibre spaces and Mordell's conjecture over function fields. **86k:32022**

Pinchuk, S. I. Analytic extension of mappings and holomorphic equivalence problems in C^n . (Russian) **86m:32002**

Varouchas, J. Stabilité de la classe des variétés kählériennes par certains morphismes propres. [Stability of the class of Kähler manifolds under certain proper morphisms] **86a:32026**

32H99 None of the above, but in this section

Angelov, St. Analytic surface-preserving maps. (Bulgarian. English and Russian summaries) **86k:32024**

Imayoshi, Yoichi Holomorphic maps of compact Riemann surfaces into 2-dimensional compact C -hyperbolic manifolds. **86h:32044**

Krasinski, Tadeusz On biholomorphic invariants related to homology groups. **86a:32056**

Królikowski, Wiesław Biholomorphic invariants on relative homology groups. **86a:32057**

Shi, Ji Hual On the bound of convexity of univalent analytic maps of the ball. **86d:32028**

Takegoshi, Kenshō Relative vanishing theorems in analytic spaces. **86i:32049**

Vigué, Jean-Pierre Points fixes d'applications holomorphes dans un produit fini de boules-unités d'espaces de Hilbert. (English summary) [Fixed points of holomorphic mappings in a finite product of unit balls in Hilbert spaces] **86i:32050**

secondary classifications (32H99)

Adachi, Toshiaki (with Sunada, Toshikazu) Geometric bounds for the number of certain harmonic mappings. **86e:58016**

Bedford, Eric Action of the automorphisms of a smooth domain in \mathbb{C}^n . **86e:32029**

Jordan, Andrei Peak sets in weakly pseudoconvex domains. **86j:32036**

Jakóbczak, Piotr On the regularity of extension to strictly pseudoconvex domains of functions holomorphic in a submanifold in general position. **86d:32013**

Kobayashi, Takao On the prolongation of solutions for quasilinear differential equations. **86d:35034**

Korányi, A. (with Reimann, H. M.) Quasiconformal mappings on the Heisenberg group. **86m:32035**

Kruzhilin, N. G. Local automorphisms and mappings of smooth strictly pseudoconvex hypersurfaces. (Russian) **86j:32046**

Nag, Subhashis On the holomorphy of maps from a complex to a real manifold. **86c:32022**

Öike, Hiroshi Nonexistence of higher order nonsingular holomorphic immersions. **86d:32007**

Patrizio, Giorgio Real and complex Monge-Ampère equations and the geometry of strictly convex domains. **86d:32020**

Reimann, H. M. See **Korányi, A.**, **86m:32035**

Sunada, Toshikazu See **Adachi, Toshiaki**, **86e:58016**

32Jxx Compact analytic spaces {For Riemann surfaces, see 14Hxx, 30Fxx.}

Barth, Wolf Paul (with Peters, Chris A. M.; Van de Ven, Antonius J. H. M.) ★ Compact complex surfaces. **86c:32026**

Peters, Chris A. M. See **Barth, Wolf Paul et al.**, **86c:32026**

Van de Ven, Antonius J. H. M. See **Barth, Wolf Paul et al.**, **86c:32026**

secondary classifications (32Jxx)

(Bérard-Bergery, L.) See **Riemannian geometry in dimension 4**, **86i:53020**

(Berger, Marcel) See **Riemannian geometry in dimension 4**, **86i:53020**

(Besse, Arthur) See **Riemannian geometry in dimension 4**, **86i:53020**

(Houzel, Christian) See **Riemannian geometry in dimension 4**, **86i:53020**

Géométrie riemannienne en dimension 4 ★ **Géométrie riemannienne en dimension 4**.

(French) [Riemannian geometry in dimension 4] **86i:53020**

Paris ★ **Géométrie riemannienne en dimension 4**. (French) [Riemannian geometry in dimension 4] **86i:53020**

Riemannian geometry in dimension 4 ★ **Géométrie riemannienne en dimension 4**.

(French) [Riemannian geometry in dimension 4] **86i:53020**

Seminar:

Arthur Besse, Riemannian geometry in dimension 4 ★ **Géométrie riemannienne en dimension 4**. (French) [Riemannian geometry in dimension 4] **86i:53020**

32J05 Compactification

Lecure, François Démonstration d'une conjecture de Huckleberry-Oeljeklaus. (English summary) [Proof of a conjecture of Huckleberry and Oeljeklaus] **86c:32027**

32J10 Algebraic dependence theorems

Ehrenpreis, Leon Transcendental numbers and partial differential equations. (See **86f:11004**)

Lafontaine, J. Surfaces de Hirzebruch. [Hirzebruch surfaces] (See **86i:53020**)

secondary classifications (32J10)

Reich, Ludwig (with Schwaiger, Jens) Über algebraische Relationen zwischen additiven und multiplikativen Funktionen. [On algebraic relations between additive and multiplicative functions] **86d:39015**

Schwaiger, Jens See **Reich, Ludwig**, **86d:39015**

32J15 Compact surfaces

Bindachadler, David (with Brenton, Lawrence) On singular 4-manifolds of the homology type of $\mathbb{C}P^2$. **86i:32051**

Bourguignon, Jean-Pierre Les surfaces $K3$. [$K3$ -surfaces] (See **86i:53020**)

Brenton, Lawrence See **Bindachadler, David**, **86i:32051**

Gauduchon, Paul Quelques invariants discrets d'une variété complexe. [Some discrete invariants of a complex manifold] (See **86i:53020**)

Les courbes d'une surface complexe. [The curves of a complex surface] (See **86i:53020**)

Surfaces de Hopf: Variétés presque-complexes de dimension quatre. [Hopf surfaces: four-dimensional almost complex manifolds] (See **86i:53020**)

Gurjar, R. V. (with Shastri, A. R.) Covering spaces of an elliptic surface. **86h:32045**

Hunt, Bruce (with Meyer, Werner) Mixed automorphic forms and invariants of elliptic surfaces. **86j:32055**

Kato, Masahide On a certain class of nonalgebraic non-Kähler compact complex manifolds. **86c:32028**

Mandelbaum, Richard Complex structures on 4-manifolds. **86i:32052**

Matsumoto, Yukio Diffeomorphism types of elliptic surfaces. **86k:32025**

Meyer, Werner See **Hunt, Bruce**, **86j:32055**

Nakamura, Iku On surfaces of class VII_0 with curves. **86c:32034**

Classification of non-Kähler complex surfaces. (Japanese) **86g:32045**

Schmickler-Hirzebruch, Ulrike ★ Elliptische Flächen über $P_1\mathbb{C}$ mit drei Ausnahmefasern und die hypergeometrische Differentialgleichung. (German) [Elliptic surfaces

over $P_1\mathbb{C}$ with three exceptional fibers, and the hypergeometric differential equation] **86i:32053**

Shastri, A. R. See **Gurjar, R. V.**, **86h:32045**

secondary classifications (32J15)

Balas, Andrew (with Gauduchon, Paul) Any Hermitian metric of constant nonpositive (Hermitian) holomorphic sectional curvature on a compact complex surface is Kähler. **86h:53066**

Donaldson, S. K. La topologie différentielle des surfaces complexes. (English summary) [The differential topology of complex surfaces] **86k:32026**

Gauduchon, Paul See **Balas, Andrew**, **86h:53066**

Izumi, Shiso Inequalities for orders on a rational singularity of a surface. **86b:32011**

Peternell, Thomas A rigidity theorem for $P_3(\mathbb{C})$. **86h:32016**

Steenbrink, Joseph (with Stevens, J.) Topological invariance of the weight filtration. **86c:14005**

Stevens, J. See **Steenbrink, Joseph**, **86c:14005**

32J20 Algebraicity criteria

Chow, Wei Liang Correction: "On the algebraicity of certain ringed spaces" [Amer. J. Math. 101 (1979), no. 2, 364-379; MR 80d:32030]. **86g:32046**

Siu, Yum Tong A vanishing theorem for semipositive line bundles over non-Kähler manifolds. **86c:32029**

32J25 Transcendental methods of algebraic geometry [See also 14C30.]

Beauville, Arnaud Some remarks on Kähler manifolds with $c_1 = 0$. **86c:32031**

Variétés Kähleriennes dont la première classe de Chern est nulle. [Kähler manifolds whose first Chern class is zero] **86c:32030**

Donaldson, S. K. La topologie différentielle des surfaces complexes. (English summary) [The differential topology of complex surfaces] **86k:32026**

Du Bois, Philippe Structure de Hodge mixte sur la cohomologie évanescence. [Mixed Hodge structure on the vanishing cohomology] **86j:32056**

Griffiths, P. A. (with Tu, Loring W.) Variation of Hodge structure. (See **86b:14004**)

Tu, Loring W. See **Griffiths, P. A.**, **(86b:14004)**

secondary classifications (32J25)

Bryant, Robert L. (with Griffiths, P. A.) Some observations on the infinitesimal period relations for regular threefolds with trivial canonical bundle. **86a:32044**

Buchdahl, N. P. Analysis on analytic spaces and non-self-dual Yang-Mills fields. **86k:32030**

Carlson, James A. (with Green, Mark; Griffiths, P. A.; Harris, Joseph Daniel) Infinitesimal variations of Hodge structure. I. **86e:32026a**

Cattani, Eduardo H. Mixed Hodge structures, compactifications and monodromy weight filtration. (See **86b:14004**)

Clemens, Herbert The Néron model for families of intermediate Jacobians acquiring "algebraic" singularities. **86d:14042**

Friedman, Robert David A new proof of the global Torelli theorem for $K3$ surfaces. **86k:14028**

Green, Mark See **Carlson, James A. et al.**, **86e:32026a**

Griffiths, P. A. (with Harris, Joseph Daniel) Infinitesimal variations of Hodge structure. II. An infinitesimal invariant of Hodge classes. **86e:32026b**

Infinitesimal variations of Hodge structure. III. Determinantal varieties and the infinitesimal invariant of normal functions. **86e:32026c**

(with Tu, Loring W.) Infinitesimal variation of Hodge structure. (See **86b:14004**)

See also **Bryant, Robert L.**, **86a:32044**; **Carlson, James A. et al.**, **86e:32026a** and

Topics in transcendental algebraic geometry, **86b:14004**

Gross, Daniel Compact quotients by C^* -actions. **86a:32061**

Harris, Joseph Daniel See **Carlson, James A. et al.**, **86e:32026a** and **Griffiths, P. A.**, **86e:32026b**

Kato, Masahide On a certain class of nonalgebraic non-Kähler compact complex manifolds. **86c:32028**

Konno, Kazuhiro On deformations and the local Torelli problem of cyclic branched coverings. **86j:32039**

Shiffman, Bernard (with Sommese, Andrew John) ★ Vanishing theorems on complex manifolds. **86h:32048**

Sommese, Andrew John See **Shiffman, Bernard**, **86h:32048**

Tu, Loring W. See **Griffiths, P. A.**, **(86b:14004)**

Usui, Sampa Variation of mixed Hodge structure arising from family of logarithmic deformations. II. Classifying space. **86h:14005**

Zucker, Steven M. Degeneration of Hodge bundles (after Steenbrink). (See **86b:14004**)

Princeton, N.J. ★ **Topics in transcendental algebraic geometry**, **86b:14004**

Seminar: **Topics in transcendental algebraic geometry** ★ **Topics in transcendental algebraic geometry**, **86b:14004**

Topics in transcendental algebraic geometry ★ **Topics in transcendental algebraic geometry**, **86b:14004**

32J99 None of the above, but in this section

Horst, Camilla Decomposition of compact complex varieties and the cancellation problem. **86j:32057**

Menini, Claudia (with Parigi, G.) Les fibrés de Seifert dans le problème de la simplification par les courbes elliptiques. [Seifert fibrations in the problem of simplification by elliptic curves] **86g:32047**

Parigi, G. See **Menini, Claudia**, **86g:32047**

Tsuji, Hajime Complex structures on $S^3 \times S^3$. **86c:32032**

secondary classifications (32J99)

Naruki, Isao Research on singular points using computers. (Japanese) **86m:14023**

- Smyth, Brian (with Sommese, Andrew John) On the degree of the Gauss mapping of a submanifold of an abelian variety. **86a:14049**
 Sommese, Andrew John See Smyth, Brian, **86a:14049**
 Viehweg, Eckart Zur Klassifikationstheorie drei (und höher) dimensionaler projektiver Mannigfaltigkeiten. [On the classification theory of three- (and higher-) dimensional projective manifolds] **86d:14033**

32Kxx Generalizations of analytic spaces (should also be assigned at least one other classification number in this section)

32K10 Non-Archimedean analytic spaces

- Bartenwerfer, Wolfgang Zur Existenz einer Steinschen Umgebung eines abgeschlossenen Steinschen Unterrums. [On the existence of a Stein neighborhood of a closed Stein subspace] **86b:32046**
 Bosch, Siegfried (with Güntzer, U.; Remmert, R.) ★Non-Archimedean analysis. **86b:32031**
 Rigid analytic geometry. **86c:32035**
 Güntzer, U. See Bosch, Siegfried et al., **86b:32031**
 Remmert, R. See Bosch, Siegfried et al., **86b:32031**

secondary classifications (32K10)

- Chow, Wei Liang Correction: "On the algebraicity of certain ringed spaces" [Amer. J. Math. 101 (1979), no. 2, 364-379; MR 80d:32030]. **86g:32046**

32K15 Differentiable functions on analytic spaces, differentiable spaces [See also 58C25.]

- Jurcăescu, M. Variétés mixtes et cohomologie. [Mixed manifolds and cohomology] **86c:32036**

secondary classifications (32K15)

- Spallek, K. Produktzerlegung und Äquivalenz von Raumkeimen. I, II. [Product decomposition and equivalence of germs of spaces. I, II] **86a:32012**
 Tancredi, A. A remark on C-analytic subsets. (Italian. English summary) **86b:32009**

32K99 None of the above, but in this section

secondary classifications (32K99)

- Tonev, T. V. Commutative Banach algebras and analytic functions of countable-many variables. **86h:46082**

32Lxx Holomorphic fiber spaces [See also 55Rxx.]

32L05 Holomorphic fiber bundles and generalizations

- Atiyah, Michael Instantons in two and four dimensions. **86m:32042**
 Donaldson, S. K. Instantons and geometric invariant theory. **86m:32043**
 Forster, Otto Holomorphic bundles over tori. (Italian) **86k:32027**
 (Idà, Monica) See Forster, Otto, **86k:32027**
 Kajiwara, Jōji (with Ohgai, Seiko; Shon, Kwang Ho) Groupes de Lie complexes et fonctions holomorphes. [Complex Lie groups and holomorphic functions] **86h:32047**
 Le Potier, Joseph Fibrés vectoriels sur les surfaces K3. [Vector bundles on K3 surfaces] **86f:32030**
 (Manaresi, Mirella) See Forster, Otto, **86k:32027**
 Ohgai, Seiko See Kajiwara, Jōji et al., **86h:32047**
 Shon, Kwang Ho See Kajiwara, Jōji et al., **86h:32047**
 Wehler, Joachim Modul space and versal deformation of stable vector bundles. **86i:32064**

secondary classifications (32L05)

- Bănică, Constantin (with Putinar, M.) On complex vector bundles on rational threefolds. **86k:14011**
 Boutet de Monvel, L. Problème de Riemann-Hilbert. I. Rappels sur les équations différentielles et les connexions. [The Riemann-Hilbert problem. I. Review of differential equations and connections] **86e:58074**
 Problème de Riemann-Hilbert. III. [The Riemann-Hilbert problem. III] **86e:58076**
 Douady, Adrien Problème de Riemann-Hilbert. II. Solution pour des points singuliers réels. [The Riemann-Hilbert problem. II. Solution for real singular points] **86e:58075**
 Kiarbe, Bernard Classification topologique des n-uples de champs de vecteurs holomorphes commutatifs sur $P_{n+1}(\mathbb{C})$. [Topological classification of n-tuples of commuting holomorphic vector fields on $P_{n+1}(\mathbb{C})$] **86f:58128**
 Déformations localement iso-irrégulières de connexions linéaires complètement intégrables sur $P_n(\mathbb{C})$. [Locally isoregular deformations of completely integrable linear connections on $P_n(\mathbb{C})$] **86i:32038**
 Le Potier, Joseph Variété de modules de fibrés stables sur une surface de Riemann: résultats d'Atiyah et Bott. [The moduli variety of stable bundles over a Riemann surface: results of Atiyah and Bott] (See **86m:14007**)
 Lisecki, Wojciech Holomorphic Lagrangian bundles over flag manifolds. (Russian summary) **86f:58009**
 Martin, Mircea Hermitian geometry and involutive algebras. **86j:47023**
 Putinar, M. See Bănică, Constantin, **86k:14011**
 Solís Lucía, Ignacio On spinor bundles. **86d:14014**

32L10 Sheaves and cohomology of sections of holomorphic vector bundles, general results [See also 18F20, 55N30.]

- Ceré, Attilia A remark on the structure of sheaves for which Theorem A holds. (Italian) **86c:32037**
 Demally, J.-P. Champs magnétiques et inégalités de Morse pour la d'' -cohomologie. (English summary) [Magnetic fields and Morse inequalities for d'' -cohomology] **86k:32028**
 Morimoto, Hiroshi Some Morse theoretic aspects of holomorphic vector bundles. **86b:32033**
 Peternell, Thomas Fast-positive Geradenbündel auf kompakten komplexen Mannigfaltigkeiten. [Almost positive line bundles on compact complex manifolds] **86f:32031**
 Ponomarev, D. A. Germs on $\mathbb{CP}^1 \times \mathbb{CP}^1$ of holomorphic vector bundles on $\mathbb{CP}^3 \times \mathbb{CP}^3$ trivial on $\mathbb{CP}^1 \times \mathbb{CP}^1$. (Russian) **86a:32058**

secondary classifications (32L10)

- Ancona, Vincenzo Images directes de faisceaux amples. [Direct images of ample sheaves] **86g:32018**
 Debarre, O. Calcul de la cohomologie de $N(r, d)$. [Calculation of the cohomology of $N(r, d)$] (See **86m:14007**)
 Fujiwara, Tsuyoshi Symmetric powers of vector bundles on algebraic varieties. **86m:14015**
 Fulton, William (with MacPherson, Robert) Classes caractéristiques des images directes des fibrés vectoriels pour les revêtements. (English summary) [Characteristic classes of direct image bundles for covering maps] **86f:14007**
 (Le Potier, Joseph) See Moduli of stable bundles over algebraic curves, **86m:14007**
 MacPherson, Robert See Fulton, William, **86f:14007**
 Majima, Hideo Riemann-Hilbert-Birkhoff problem for integrable connections with irregular singular points. **86g:58003**
 Murray, M. K. Nonabelian magnetic monopoles. **86e:53057**
 Oesterlé, Joseph Construction de la variété de modules des fibrés vectoriels stables sur une courbe algébrique lisse. [Constructing the moduli variety of stable vector bundles over a smooth algebraic curve] (See **86m:14007**)
 de Roon, J. W. Cohomology theory. (See **86i:81004**)
 Verdier, Jean-Louis See Moduli of stable bundles over algebraic curves, **86m:14007**

Conference:

- Moduli of stable bundles over algebraic curves ★Module des fibrés stables sur les courbes algébriques. (French) [Moduli of stable bundles over algebraic curves] **86m:14007**
 Module des fibrés stables sur les courbes algébriques ★Module des fibrés stables sur les courbes algébriques. (French) [Moduli of stable bundles over algebraic curves] **86m:14007**
 Moduli of stable bundles over algebraic curves ★Module des fibrés stables sur les courbes algébriques. (French) [Moduli of stable bundles over algebraic curves] **86m:14007**
 Paris ★Module des fibrés stables sur les courbes algébriques. (French) [Moduli of stable bundles over algebraic curves] **86m:14007**

32L15 Bundle convexity [See also 32F10.]

- Abdelkader, Osama Théorèmes d'existence avec estimation L^p pour les $(0, s)$ -formes d'un domaine strictement pseudo-convexe à valeurs dans un fibré hermitien en droites. (English summary) [Existence theorems with L^p estimate for $(0, s)$ bundle-valued forms on a strongly pseudoconvex domain] **86m:32044**

secondary classifications (32L15)

- Griffiths, P. A. (with Tu, Loring W.) Curvature properties of the Hodge bundles. (See **86b:14004**)
 Tu, Loring W. See Griffiths, P. A., (**86b:14004**)

32L20 Vanishing theorems

- Ancona, Vincenzo (with Silva, Alessandro) Fibrés numériquement semi-positifs sur les variétés fortement pseudo-convexes. (English summary) [Numerically semipositive sheaves on strongly pseudoconvex manifolds] **86k:32029**
 Barlet, D. Théorème de Hodge. [The Hodge theorem] **86i:32056b**
 Fischer, Hans R. (with Williams, Floyd L.) Borel-LePotier diagrams—calculus of their cohomology bundles. **86c:32033**
 Peternell, Thomas Der Kodairaische Verschwindungssatz auf streng pseudokonvexen Räumen. I. [The Kodaira vanishing theorem on strongly pseudoconvex spaces. I] **86i:32055a**
 Der Kodairaische Verschwindungssatz auf streng pseudokonvexen Räumen. II. [The Kodaira vanishing theorem on strongly pseudoconvex spaces. II] **86i:32055b**
 Shiffman, Bernard (with Sommese, Andrew John) ★Vanishing theorems on complex manifolds. **86h:32048**
 (with Sommese, Andrew John) Vanishing theorems for weakly positive vector bundles. **86m:32045**
 Silva, Alessandro See Ancona, Vincenzo, **86k:32029**
 Sommese, Andrew John See Shiffman, Bernard, **86h:32048** and Shiffman, B., **86m:32045**
 Varouchas, J. Fibrés positifs. [Positive bundles] **86i:32056a**
 L'algèbre extérieure d'un espace hermitien. [The exterior algebra of a Hermitian space] **86i:32056c**
 Watanabe, Kiyoshi The limit of cohomology sets of domains over a Grassmann manifold. **86h:32049**
 Williams, Floyd L. See Fischer, Hans R., **86c:32033**

secondary classifications (32L20)

- Ancona, Vincenzo (with Vo Van Tan) On the blowing down problem in C-analytic geometry. **86h:32025**

- Penrose, Roger Mass in general relativity. 86b:83020
 Peternell, Thomas Fast-positive Geradenbündel auf kompakten komplexen Mannigfaltigkeiten. [Almost positive line bundles on compact complex manifolds] 86f:32031
 Shu, Yun Tong A vanishing theorem for semipositive line bundles over non-Kähler manifolds. 86c:32029
 Takegoshi, Kenshō Relative vanishing theorems in analytic spaces. 86i:32049
 Vo Van Tan See Ancona, Vincenzo, 86h:32025

32L25 Twistor theory, double fibrations

- van den Broek, P. M. Twistor geometry. 86a:32059
 Buchdahl, N. P. Analysis on analytic spaces and non-self-dual Yang-Mills fields. 86k:32030
 Eastwood, Michael G. Complexification, twistor theory, and harmonic maps from Riemann surfaces. 86c:32034
 (with Pool, Robert; Wells, R. O., Jr.) The inverse Penrose transform of a solution to the Maxwell-Dirac-Weyl field equations. 86m:32046
 The generalized Penrose-Ward transform. 86f:32032
 Leiterer, J. On the Penrose transform. 86j:32058
 Manin, Yu. I. Holomorphic supergeometry and Yang-Mills superfields. (Russian) 86c:32038
 New exact solutions and cohomological analysis of ordinary and supersymmetric Yang-Mills equations. (Russian) 86j:32059
 Martini, R. Twistor theory and Yang-Mills fields. (See 86f:81002)
 Odašewski, Anatol A holomorphic field theory. 86a:32080
 Perjés, Zoltán Twistor theory. (See 86m:83003)
 Pool, Robert See Eastwood, Michael G. et al., 86m:32046
 de Rover, J. W. The Penrose transformation. (See 86i:81004)
 Wells, R. O., Jr. Nonlinear field equations and twistor theory. 86i:32057
 See also Eastwood, Michael G. et al., 86m:32046

secondary classifications (32L25)

- Atiyah, Michael (with Hitchin, N. J.) Low energy scattering of nonabelian monopoles. 86c:53053
 Bailey, T. N. Twistors and fields with sources on worldlines. 86h:81060
 Bérard-Bergery, L. (with Ochiai, Takushiro) On some generalizations of the construction of twistor spaces. 86h:53028
 Boyer, C. P. (with Plebański, Jerzy F.) An infinite hierarchy of conservation laws and nonlinear superposition principles for self-dual Einstein spaces. 86f:83020
 Friedrich, Th. An application of the twistor theory to surfaces in 4-dimensional manifolds. 86j:53091
 Gelfand, I. M. (with Zeleninskii, A. V.) Models of representations of classical groups and their hidden symmetries. (Russian. English summary) 86a:22029
 Gindikin, S. G. The complex universe of Roger Penrose. 86g:01036
 Helfer, Adam D. Nonlinear connections for curved twistor spaces. 86j:53050
 Hitchin, N. J. See Atiyah, Michael, 86c:53053
 Jeffries, B. P. Two-surface twistors and conformal embedding. 86h:83026
 Lafontaine, J. (with Polombo, Albert) Introduction à l'auto-dualité et aux équations de Yang-Mills. [Introduction to self-duality and the Yang-Mills equations] (See 86i:53020)
 Law, P. R. Twistor theory and the Einstein equations. 86m:83010
 LeBrun, Claude R. Twistor CR manifolds and three-dimensional conformal geometry. 86m:32033
 Litov, L. B. (with Pervushin, V. N.) Quantum supertwistors and fundamental superspaces. 86c:58008
 Malus, K. Linear complexes of k -planes. (Russian) 86j:14007
 Manin, Yu. I. ★ Калибровочные поля и комплексная геометрия. (Russian) [Gauge fields and complex geometry] 86m:32001
 Some applications of algebraic geometry. (Russian) 86h:58003
 Martini, R. Linear fields and Yang-Mills theory. (See 86i:81004)
 Merkulov, S. A. The twistor connection and gauge invariance principle. 86c:53015
 Twistor connection and conformal gravitation. (Russian. English summary) 86m:53043
 Murray, M. K. A twistor correspondence for homogeneous polynomial differential operators. 86j:58141
 Nahm, W. Self-dual magnetic monopoles and generalizations of holomorphic functions. 86h:53074
 Ochiai, Takushiro See Bérard-Bergery, L., 86h:53028
 Pervushin, V. N. See Litov, L. B., 86c:58008
 Plebański, Jerzy F. See Boyer, C. P., 86f:83020
 Polombo, Albert See Lafontaine, J., 86i:53020
 de Rover, J. W. Computation of the Yang-Mills potentials. (See 86i:81004)
 Shaw, William T. Symplectic geometry of null infinity and two-surface twistors. 86b:83021
 Wainwright, P. R. A twistor approach to Nahm's equations. 86i:53048
 Ward, R. S. Completely solvable gauge-field equations in dimension greater than four. 86b:53073
 Zeleninskii, A. V. See Gelfand, I. M., 86a:22029

32L99 None of the above, but in this section

- Penkov, I. (with Skorniyakov, I. A.) Projectivity and \mathcal{D} -affineness of flag supermanifolds. (Russian) 86j:32060
 Skorniyakov, I. A. See Penkov, I., 86j:32060

secondary classifications (32L99)

- Chen, Kuo Tsai On the Bezout theorem. 86a:14002
 Gómez Ruiz, Francisco A residue formula for characteristic classes. (Spanish. English summary) (See 86g:00012b)

- Kajiwara, Joji (with Ohgai, Seiko; Shon, Kwang Ho) Groupes de Lie complexes et fonctions holomorphes. [Complex Lie groups and holomorphic functions] 86h:32047
 Majima, Hideyuki ★ Asymptotic analysis for integrable connections with irregular singular points. 86c:58004
 Manin, Yu. I. New dimensions in geometry. (Russian) 86d:14002
 Nahm, W. Self-dual monopoles and caloron. (See 86b:81002)
 Ohgai, Seiko See Kajiwara, Joji et al., 86h:32047
 Shon, Kwang Ho See Kajiwara, Joji et al., 86h:32047

32Mxx Complex spaces with a group of automorphisms

32M05 Complex Lie groups, automorphism groups of complex spaces [See also 22E10.]

- Białynicki-Birula, Andrzej (with Sommese, Andrew John) Quotients by $C^* \times C^*$ actions. 86j:32061
 Deblard, Amédée (with Gaveau, B.) Équations de Cauchy-Riemann sur $SU(2)$ et spectres associés. (English summary) [Cauchy-Riemann equations on $SU(2)$ and associated spectra] 86m:32047
 Furushima, Mikio Finite groups of polynomial automorphisms in the complex affine plane. II. 86g:32048
 Futaki, Akito (with Morita, Shigeyuki) Invariant polynomials on compact complex manifolds. 86f:32033
 Gaveau, B. See Deblard, Amédée, 86m:32047
 Gross, Daniel Compact quotients by C^* -actions. 86a:32061
 Lassalle, Michel L'espace de Hardy d'un domaine de Reinhardt généralisé. [The Hardy space of a generalized Reinhardt domain] 86g:32049
 Morita, Shigeyuki See Futaki, Akito, 86f:32033
 Sommese, Andrew John See Białynicki-Birula, Andrzej, 86j:32061

secondary classifications (32M05)

- Ildiro, José M. (with Stachó, László L.) ★ Holomorphic automorphism groups in Banach spaces: an elementary introduction. 86f:32037
 Khenkin, G. M. See Tumanov, A. E., 86a:32063
 Loeb, Jean Jacques Fonctions plurisousharmoniques sur un groupe de Lie complexe invariants par une forme réelle. (English summary) [Invariant plurisubharmonic functions by a real form on a complex Lie group] 86g:32021
 Rusek, Kamil Polynomial automorphisms of C^n . (Polish) 86i:14004
 Shvartsman, O. V. Discrete groups of reflections in a complex ball. (Russian) 86a:22022
 Stachó, László L. See Ildiro, José M., 86f:32037
 Tumanov, A. E. (with Khenkin, G. M.) Local characterization of holomorphic automorphisms of Siegel domains. (Russian) 86a:32063
 Yasuoka, Takashi The CR-automorphism groups of strictly pseudoconvex boundaries. 86j:32044

32M10 Homogeneous complex manifolds [See also 14M17, 57T15.]

- Akhieser, D. N. Invariant analytic hypersurfaces in complex nilpotent Lie groups. 86h:32050
 Arabia, Alberto Cycles de Schubert et cohomologie équivariante de K/T . (English summary) [Schubert cycles and equivariant cohomology of K/T] 86m:32048
 Asakawa, Kazuo Curvature operator of the Bergman metric on a homogeneous bounded domain. 86m:32049
 Deblard, Amédée (with Gaveau, B.) Une définition de l'intégrale d'aire pour les fonctions holomorphes d'un domaine de Siegel. (English summary) [Area integrals for holomorphic functions in a Siegel domain] 86k:32031
 Dorfmeister, Josef Simply transitive groups and Kähler structures on homogeneous Siegel domains. 86h:32051
 Gaveau, B. See Deblard, Amédée, 86k:32031
 Gasti, Laura Holomorphic automorphisms of bounded, homogeneous, nonsymmetric domains. 86c:32039
 Gilligan, Bruce On bounded holomorphic reductions of homogeneous spaces. 86a:32062
 Huckleberry, A. (with Oeljeklaus, E.) ★ Classification theorems for almost homogeneous spaces. 86g:32050
 Khenkin, G. M. See Tumanov, A. E., 86a:32063
 Łojasiewicz, Stanisław Biholomorphismes des variétés grassmanniennes. [Biholomorphisms of Grassmann manifolds] 86f:32034
 Manin, Yu. I. See Voronov, A. A., 86f:32036
 Oeljeklaus, E. Almost homogeneous manifolds. 86f:32035
 See also Huckleberry, A., 86g:32050
 Oeljeklaus, Karl (with Richthofer, Wolfgang) Homogeneous complex surfaces. 86c:32035
 Penney, Richard Harmonic analysis on unbounded homogeneous domains in C^n . 86h:32052
 Pyasetskii, V. S. Questions of finiteness in the theory of homogeneous convex cones. (Russian) 86j:32062
 Richthofer, Wolfgang See Oeljeklaus, Karl, 86c:32035
 Shimizu, Atsushi On complex tori with many endomorphisms. 86c:32036
 Snow, Dennis M. Stein quotients of connected complex Lie groups. 86m:32050
 Tumanov, A. E. (with Khenkin, G. M.) Local characterization of holomorphic automorphisms of Siegel domains. (Russian) 86a:32063
 Voronov, A. A. (with Manin, Yu. I.) Schubert supercells. (Russian) 86f:32036
 Zou, Yi Ming The classification of the complex structures on one class of simply connected compact homogeneous spaces. 86a:32064

secondary classifications (32M10)

- Cordero, Luis A. (with Rodríguez, Marisa Fernández; de León, Manuel) Examples of compact non-Kähler almost Kähler manifolds. 86m:53049
 Dorfmeister, Josef Variétés homogènes kählériennes. (English summary) [Homogeneous Kähler manifolds] 86j:53073

Drozhzhinov, Yu. N. See Vladimirov, V. S. et al., 86f:4043

Faraut, J. See Satake, Ichirô, 86a:11019

He, Wen Hua Singular integrals and singular integral equations on the complex hypersphere. (Chinese. English summary) 86d:43020

Lasalle, Michel L'espace de Hardy d'un domaine de Reinhardt généralisé. [The Hardy space of a generalized Reinhardt domain] 86g:32049

de León, Manuel See Cordero, Luis A. et al., 86m:53049

Lescure, François Démonstration d'une conjecture de Huckleberry-Oeljeklaus. (English summary) [Proof of a conjecture of Huckleberry and Oeljeklaus] 86c:32027

Nakajima, Kasufumi Homogeneous hyperbolic manifolds and homogeneous Siegel domains. 86m:32041

Peternell, Mathias Homotopie in homogenen komplexen Mannigfaltigkeiten. [Homotopy in homogeneous complex manifolds] 86j:32040

Rodrigues, Marisa Fernandes See Cordero, Luis A. et al., 86m:53049

Satake, Ichirô (with Faraut, J.) The functional equation of zeta distributions associated with formally real Jordan algebras. 86a:11019

Sato, Shuichi Lusin functions and nontangential maximal functions in the H^p theory on the product of upper half spaces. 86j:42037

Shimizu, Satoru Complex analytic properties of tubes over locally homogeneous hyperbolic affine manifolds. 86m:32023

Upmeyer, Harald A holomorphic characterization of C^* -algebras. 86k:46089

Vinberg, È. B. Hyperbolic groups of reflections. (Russian) 86m:53059

Vladimirov, V. S. (with Drozhzhinov, Yu. N.; Zav'yalov, B. I.) Theorems of Tauberian type for generalized functions. (Russian) 86f:40042

Zav'yalov, B. I. See Vladimirov, V. S. et al., 86f:40042

32M15 Hermitian symmetric spaces, bounded symmetric domains [See also 22E10, 22E40, 53C35, 57T15.]

Agranovskii, M. L. Invariant algebras of functions in symmetric spaces. (Russian) 86c:32040

Akhleser, D. N. Algebraic varieties that are symmetric in Borel's sense. (Russian) 86c:32037

Békollé, David Le dual de l'espace des fonctions holomorphes intégrables dans des domaines de Siegel. (English summary) [The dual of the space of holomorphic functions integrable in Siegel domains] 86m:32051

Isidro, José M. (with Stachó, László L.) ★ Holomorphic automorphism groups in Banach spaces: an elementary introduction. 86f:32037

Marsuq, Maher M. H. General form of linear functionals in A^p spaces over irreducible bounded symmetric domains in C^N ($N > 1$). 86b:32033

Mochizuki, Nosomu The Fejér-Riesz inequality for Siegel domains. 86f:32038

Roe, Guy Le noyau de Cauchy-Hua du domaine symétrique exceptionnel de dimension 16. (English summary) [The Cauchy-Hua kernel of the 16-dimensional exceptional symmetric domain] 86b:32034

Rudin, Walter Eigenfunctions of the invariant Laplacian in B . 86g:32051

Siu, Yum Tong Strong rigidity of compact quotients of exceptional bounded symmetric domains. 86h:32053

Stachó, László L. See Isidro, José M., 86f:32037

Upmeyer, Harald Toeplitz operators and solvable C^* -algebras on Hermitian symmetric spaces. 86d:32029

Wolniewicz, T. M. Inclusion operators in Bergman spaces on bounded symmetric domains in C^n . 86f:32039

Zucker, Steven M. L_2 cohomology of warped products and arithmetic groups. 86j:32063
Satake compactifications. 86c:32041

secondary classifications (32M15)

Aleksandrov, A. B. Inner functions on compact spaces. (Russian) 86d:32003

Fletcher, Evan Contractions of invariant Finsler forms on the classical domains. 86d:32036

Fordy, Allan P. Derivative nonlinear Schrödinger equations and Hermitian symmetric spaces. 86a:58043

Mok, Ngaiming The holomorphic or antiholomorphic character of harmonic maps into irreducible compact quotients of polydisks. 86m:22013

Poestre, Jaak A reproducing kernel. (Italian summary) 86c:32025

Satake, Ichirô On numerical invariants of arithmetic varieties (in the case of Q -rank one). (Japanese) 86f:14030

Takeuchi, Masaru Parallel projective manifolds and symmetric bounded domains. 86j:53078

Tsuji, Tadashi Symmetric homogeneous convex domains. 86a:53057

Upmeyer, Harald Jordan algebras and operator theory—a survey. 86f:46074

Toeplitz C^* -algebras on bounded symmetric domains. 86a:47022

32M99 None of the above, but in this section

secondary classifications (32M99)

Gurevich, D. I. Multivalued Lie algebras. (Russian) 86k:22010

Kumar, Shrawan Geometry of Schubert cells and cohomology of Kac-Moody Lie-algebras. 86j:17020

Mok, Ngaiming (with Wong, Bun) Characterization of bounded domains covering Zariski dense subsets of compact complex spaces. 86b:32014

Vigué, Jean-Pierre Points fixes d'applications holomorphes dans un produit fini de boules-unités d'espaces de Hilbert. (English summary) [Fixed points of holomorphic mappings in a finite product of unit balls in Hilbert spaces] 86j:32050

Wong, Bun See Mok, Ngaiming, 86b:32014

32Nxx Automorphic functions [See also 11Fxx, 20H10, 22E40, 30F35.]

32N10 Automorphic forms

Doigachev, I. On algebraic properties of algebras of automorphic forms. 86c:32042

Nemshaev, A. Yu. The Eichler-Shimura cohomology in the case of Siegel modular forms. (Russian) 86j:32064

secondary classifications (32N10)

Arakawa, Teunoo On certain automorphic forms of $Sp(1, q)$. 86e:11039

Böcherer, Siegfried Über die Fourier-Jacobi-Entwicklung Siegelcher Eisensteinreihen.

II. [On the Fourier-Jacobi expansion of Siegel Eisenstein series. II] 86f:11037

Casselman, William L^2 -cohomology for groups of real rank one. 86a:22020

Faltings, Gerd Arithmetic varieties and rigidity. 86j:11050

van Geemen, Bert Siegel modular forms vanishing on the moduli space of curves. 86d:14040

Hunt, Bruce (with Meyer, Werner) Mixed automorphic forms and invariants of elliptic surfaces. 86j:32055

Meyer, Werner See Hunt, Bruce, 86j:32055

Tai, Yung-Sheng Pluricanonical differentials of Hilbert modular varieties. 86e:11033

Vogan, David A., Jr. (with Zuckerman, Gregg J.) Unitary representations with nonzero cohomology. 86k:22040

Zuckerman, Gregg J. See Vogan, David A., Jr., 86k:22040

32N15 Automorphic functions in symmetric domains

Pommerening, Klaus Die Fortsetzbarkeit von Differentialformen auf arithmetischen Quotienten von hermiteschen symmetrischen Räumen. [The continuability of differential forms on arithmetic quotients of Hermitian symmetric spaces] 86j:32065

Satake, Ichirô On numerical invariants of arithmetic varieties of Q -rank one. 86i:32058

secondary classifications (32N15)

Borel, A. (with Casselman, William) Cohomologie d'intersection et L^2 -cohomologie de variétés arithmétiques de rang rationnel 2. (English summary) [Intersection cohomology and L^2 -cohomology of arithmetic varieties of rational rank 2] 86m:22015

Casselman, William See Borel, A., 86m:22015

Isidro, José M. (with Vigué, Jean-Pierre) The group of biholomorphic automorphisms of symmetric Siegel domains and its topology. 86h:32040

Kato, Sushiro A dimension formula for a certain space of automorphic forms of $SU(p, 1)$. 86h:11045

Shimura, Goro Arithmetic of differential operators on symmetric domains. 86m:11032

On differential operators attached to certain representations of classical groups.

86i:11034

Vigué, Jean-Pierre See Isidro, José M., 86h:32040

32N99 None of the above, but in this section

secondary classifications (32N99)

Shimizu, Atsushi On complex tori with many endomorphisms. 86c:32036

33-XX SPECIAL FUNCTIONS (33-XX deals with the properties of functions as functions. General systems of orthogonal functions are treated in 42C05. Expansions in orthogonal functions are treated in 42C10, 42C15.)

33-01 Elementary exposition; textbooks

Andrews, Larry C. ★ Special functions for engineers and applied mathematicians. 86g:33001

secondary classifications (33-01)

Arsevin, V. Ya. ★ Методы математической физики и специальные функции. (Russian) [Methods of mathematical physics, and special functions] 86c:00001

33-02 Advanced exposition (research surveys, monographs, etc.)

Nikiforov, A. F. (with Uvarov, V. B.) ★ Специальные функции математической физики. (Russian) [Special functions of mathematical physics] 86k:33001

Uvarov, V. B. See Nikiforov, A. F., 86k:33001

secondary classifications (33-02)

Berndt, B. C. ★ Ramanujan's notebooks. Part I. 86c:01062

(Chandrasekhar, S.) See Berndt, B. C., 86c:01062

van der Laan, C. G. (with Temme, N. M.) ★ Calculation of special functions: the gamma function, the exponential integrals and error-like functions. 86g:65043

(Ramanujan, Srinivasa) See Berndt, B. C., 86c:01062

Temme, N. M. See van der Laan, C. G., 86g:65043

33-03 Historical (must also be assigned at least one classification number from Section 01)

secondary classifications (33-03)

Berndt, B. C. (with Evans, Ronald) Chapter 13 of Ramanujan's second notebook: integrals and asymptotic expansions. 86j:01032

- Bühler, W. K. The hypergeometric function—a biographical sketch. **86j:01003**
 Dutka, Jacques The early history of the hypergeometric function. **86d:01010**
 Evans, Ronald See Berndt, B. C. **86j:01032**
 Sorokina, L. A. Legendre's works on the theory of elliptic integrals. (Russian) **86e:01021**

33-04 Explicit machine computation and programs (not the theory of computation or programming)

secondary classifications (33-04)

- Carmignani, Marta (with Tortorici Macaluso, Adele) Computation of the special functions $\Gamma(x)$, $\log \Gamma(x)$, $\beta(x, y)$, $\operatorname{erf}(x)$, $\operatorname{erfc}(x)$ to a high degree of precision. (Italian) **86k:65016**
 Tortorici Macaluso, Adele See Carmignani, Marta, **86k:65016**

33A10 Exponential and trigonometric functions

- Borshch, Yu. A. Values of certain integrals. (Russian) **86d:33001**
 Dias Regueiro, Manuel Cyclotomic functions. (Spanish) (See **86h:00009a**)
 Fetti, Henry E. More trigonometric integrals. **86f:33001**
 Khvoztova, I. V. A characteristic of the sine function. (Russian) **86e:33001**
 Todorov, Pavel G. The n th derivative of $\operatorname{tg} z$. (Russian and Bulgarian summaries) **86m:33001**

secondary classifications (33A10)

- Allasia, G. (with Criseri Tira, Bruna) Approximations bilatérales de quelques transcendentes élémentaires. (English summary) [Bilateral approximations of some elementary transcendental polynomials] **86m:65023**
 Criseri Tira, Bruna See Allasia, G., **86m:65023**
 de Doelder, P. J. On the Clausen integral $\operatorname{Cl}_2(\theta)$ and a related integral. **86g:65054**
 Evans, Ronald (with Stolarsky, Kenneth B.) A family of polynomials with concyclic zeroes. II. **86d:30015**
 Grozjan, C. C. Formulae concerning the computation of the Clausen integral $\operatorname{Cl}_2(\theta)$. **86g:65055**
 Proof of a remarkable identity. **86a:40002**
 Knab, Otto Zur lokalen Wertverteilung von Exponentialpolynomen. [On local value distribution of exponential polynomials] **86h:30009**
 McCurdy, A. (with Ng, Kwok Choi; Parlett, B. N.) Accurate computation of divided differences of the exponential function. **86e:65029**
 Ng, Kwok Choi See McCurdy, A. et al., **86e:65029**
 Parlett, B. N. See McCurdy, A. et al., **86e:65029**
 Stolarsky, Kenneth B. See Evans, Ronald, **86d:30015**
 Timoshkova, E. I. (with Titov, V. B.) Structure of coefficients of the series representing the solution of the plane, circular three-body problem. **86h:70010**
 Titov, V. B. See Timoshkova, E. I., **86h:70010**

33A15 Gamma and beta functions

- Badiale, Marino Some characterisation of the q -gamma function by functional equations. I. (Italian summary) **86b:33001a**
 Some characterisation of the q -gamma function by functional equations. II. (Italian summary) **86b:33001b**
 Berndt, B. C. The gamma function and the Hurwitz zeta-function. **86f:33002**
 Dutka, Jacques On some gamma function inequalities. **86e:33002**
 Garay de Pablo, José Differences of Prym functions. (Spanish) **86h:33001**
 Kadell, Kevin W. J. A proof of Andrews' q -Dyson conjecture for $n = 4$. **86f:33003**
 Kurgayev, A. F. (with Tsatryan, K. Zh.) *Реализация и использование Γ -функции для вычисления широкого набора специальных функций. (Russian) [Realization and use of the Γ -function for calculations of a broad collection of special functions] **86k:33002**
 Tsatryan, K. Zh. See Kurgayev, A. F., **86k:33002**

secondary classifications (33A15)

- Apelblat, Alexander Some integrals of gamma, polygamma and Volterra functions. **86h:65024**
 Duval, Anne Étude asymptotique d'une intégrale analogue à la fonction " Γ modifiée". [Asymptotic study of an integral analogous to the modified Γ -function] **86b:41036**
 Samoilenko, A. M. (with Voznyi, A. M.) Properties of periodic Ateb-functions and their application in the construction of solutions of second-order nonlinear differential equations. (Russian) **86d:65033**
 Voznyi, A. M. See Samoilenko, A. M., **86d:65033**

33A20 Error function, probability integral

- Blatov, V. V. Some properties of repetitive probability integrals. **86e:33003**

33A25 Elliptic functions and integrals

- Agarwal, Anand Kumar Certain four-term relations between partial-theta functions and summation formulae. **86f:33004**
 Kalla, Shyam L. Results on generalized elliptic-type integrals. **86h:33002**
 Lehnigk, S. H. A generalized Jacobi theta function. **86b:33002**

secondary classifications (33A25)

- Adiga, Chandrashekar (with Berndt, B. C.; Bhargava, Srinivasamurthy; Watson, G. N.) Chapter 16 of Ramanujan's second notebook: theta-functions and q -series. **86e:33004**
 Bank, Steven B. (with Langley, J. K.) On the value distribution theory of elliptic functions. **86e:30059**
 Berndt, B. C. See Adiga, Chandrashekar et al., **86e:33004**
 Bhargava, Srinivasamurthy See Adiga, Chandrashekar et al., **86e:33004**

- Borwein, J. M. (with Borwein, Peter B.) Cubic and higher order algorithms for π . **86f:11099**

- Borwein, Peter B. See Borwein, J. M., **86f:11099**

- Enol'skii, V. Z. Solutions in elliptic functions of integrable nonlinear equations connected with two-zone Lamé potentials. (Russian) **86e:35134**

- Fedyanin, V. K. See Grishin, V. E., **86a:81051**

- Fenyő, I. (with Paganoni, L.) Sur la connexion entre une équation fonctionnelle et l'équation différentielle des fonctions elliptiques Jacobiennes. [The connection between a functional equation and the differential equation for Jacobian elliptic functions] **86f:39002**

- Grishin, V. E. (with Fedyanin, V. K.) Integration of the φ^4 model in terms of Jacobi elliptic functions and investigation of these functions by means of the phase plane method. (Russian. English summary) **86a:81051**

- Kalla, Shyam L. Generalized elliptic-type integrals. (Not in MR)

- Langley, J. K. See Bank, Steven B., **86e:30059**

- McVittie, G. C. Elliptic functions in spherically symmetric solutions of Einstein's equations. **86g:83027**

- Paganoni, L. See Fenyő, I., **86f:39002**

- Ramanujan, Srinivasa See Adiga, Chandrashekar et al., **86e:33004**

- Schoenberg, I. J. On Jacobi-Bertrand's proof of a theorem of Poncelet. **86m:51029**

- Todd, John Applications of transformation theory: a legacy from Zolotarev (1847-1878). **86g:41044**

- Watson, G. N. See Adiga, Chandrashekar et al., **86e:33004**

- Wüsthols, G. Zum Periodenproblem. [On the period problem] **86f:11057**

- (Zolotarev, E. I.) See Todd, John, **86g:41044**

33A30 Simple hypergeometric functions of one and several variables

- Adiga, Chandrashekar (with Berndt, B. C.; Bhargava, Srinivasamurthy; Watson, G. N.) Chapter 16 of Ramanujan's second notebook: theta-functions and q -series. **86e:33004**
 Ahmed, Shafruke Erratum: "Properties of the zeroes of confluent hypergeometric functions" [J. Approx. Theory **34** (1982), no. 4, 335-347; MR **83c:33001**]. **86e:33005**
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 Moak, Daniel S. An application of hypergeometric functions to a problem in function theory. 86c:33007
 Narain, Kuldeep (with Lal, Mange) Simultaneous dual series equations involving heat polynomials. 86f:45007
 Slepenschuk, K. M. Representation of an analytic function of two variables by means of an infinite product. (Russian) 86b:33003
 Suzuki, Noboru Simple calculation of Löwdin's alpha-function. 86d:81096a
 Erratum: "Simple calculation of Löwdin's alpha-function". 86d:81096b
 Takemura, Akimichi ★ Zonal polynomials. 86g:62076
 Walton, J. E. (with Horadam, A. F.) Generalized Pell polynomials and other polynomials. 86b:11015
 Watalawek, Wolfgang Some remarks on expansions in terms of generalized Helmholtz polynomials. 86j:33024

33A75 Special functions and Lie groups [See also 22Exx, 43A80.]

- Agrawal, B. M. (with Jain, Renu) Lie theory and generating functions of some special functions of mathematical physics. 86f:33019
 Chatterjee, S. K. Classical and group-theoretic analysis of some problems of special functions. (Not in MR)
 Jain, Renu See Agrawal, B. M., 86f:33019
 Koornwinder, Tom H. Jacobi functions and analysis on noncompact semisimple Lie groups. 86m:33018
 Vretare, Lars Formulas for elementary spherical functions and generalized Jacobi polynomials. 86k:33018

secondary classifications (33A75)

- Biedenharn, L. C. (with Gustafson, R. A.; Lohe, M. A.; Louck, J. D.; Milne, S. C.) Special functions and group theory in theoretical physics. 86h:22034
 (with Lohe, M. A.; Louck, J. D.) On the denominator function for canonical $SU(3)$ tensor operators. 86i:81052
 Chongdar, Asit Kumar On a pair of generating relations for some special functions from the view of Lie-algebra. 86b:33008
 Some generating functions of modified Bessel polynomials from the view point of Lie group. 86d:33013
 Gustafson, R. A. See Biedenharn, L. C. et al., 86h:22034
 Koornwinder, Tom H. Matrix elements of irreducible representations of $SU(2) \times SU(2)$ and vector-valued orthogonal polynomials. 86j:22017
 Kushner, H. B. On the expansion of $C_p^2(V + I)$ as a sum of zonal polynomials. 86m:62104
 Lohe, M. A. See Biedenharn, L. C. et al., 86h:22034 and 86i:81052
 Louck, J. D. See Biedenharn, L. C. et al., 86h:22034 and 86i:81052
 Milne, S. C. See Biedenharn, L. C. et al., 86h:22034
 Mitter, H. (with Yamazaki, K.) A representation for spherical harmonics of a rotated argument. 86a:22031
 Prado, Humberto Représentations de $GL(2, \mathbb{R})$ et identités de type Barnes pour la fonction Γ . (English summary) [Representations of $GL(2, \mathbb{R})$ and Barnes-type identities for the Γ -function] 86c:22023

Schempp, Walter Radar ambiguity functions, nilpotent harmonic analysis, and holomorphic theta series. 86k:22021

Radar ambiguity functions, the Heisenberg group, and holomorphic theta series. 86j:22009

- Sorogovets, I. B. Matrix polynomials connected with representations of the group $SO(n)$. (Russian. English summary) 86d:22015
 Stanton, Dennis Orthogonal polynomials and Chevalley groups. 86d:22008
 Stempak, Krzysztof Multipliers for eigenfunction expansions of some Schrödinger operators. 86i:43016
 Suslov, S. K. The T -coefficients of the "tree" method as orthogonal polynomials of a discrete variable. 86d:33017
 Uchimura, Keisuke Polynomials associated with the characters of $SU(n)$. 86i:22038
 Yamazaki, K. See Mitter, H., 86a:22031

33A99 Miscellaneous topics

Agarwal, Ashok Kumar A note on generalized Sylvester polynomials. 86c:33025

secondary classifications (33A99)

Paule, Peter On identities of the Rogers-Ramanujan type. 86i:11055

34-XX ORDINARY DIFFERENTIAL EQUATIONS

34-01 Elementary exposition; textbooks

- Arnol'd, V. I. ★ Обыкновенные дифференциальные уравнения. (Russian) [Ordinary differential equations] 86i:34001
 Bulgakov, N. G. ★ Знакопостоянные функции в теории устойчивости. (Russian) [Sign-constant functions in stability theory] 86i:34002
 Chua, L. O. See Odyne, Michal, 86m:34001
 Goryachenko, V. D. ★ Методы исследования периодических режимов в автономных системах. (Russian) [Methods for investigating periodic regimes in autonomous systems] 86b:34001
 Johnson, R. M. ★ Theory and applications of linear differential and difference equations. 86d:34001
 Kir'yanen, A. I. ★ Устойчивость решений дифференциальных уравнений с отклоняющимся аргументом. (Russian) [Stability of solutions of differential equations with a deviating argument] 86c:34001
 Medvedev, V. I. See Migulin, V. V. et al., 86c:34001
 Migulin, V. V. (with Medvedev, V. I.; Mustel', E. R.; Parygin, V. N.) ★ Basic theory of oscillations. 86c:34001
 Mustel', E. R. See Migulin, V. V. et al., 86c:34001
 (Myshkis, A. D.) See Petrovskii, I. G., 86b:34002
 Nasritdinov, G. N. See Salokhitdinov, M. S., 86a:34001
 Odyne, Michal (with Chua, L. O.) Integral manifolds for nonlinear circuits. 86m:34001
 Oleinik, O. A. See Petrovskii, I. G., 86b:34002
 Parygin, V. N. See Migulin, V. V. et al., 86c:34001
 Petrovskii, I. G. ★ Лекции по теории обыкновенных дифференциальных уравнений. (Russian) [Lectures on the theory of ordinary differential equations] 86b:34002
 Salokhitdinov, M. S. (with Nasritdinov, G. N.) ★ Однй дифференциал тенглалар. (Uzbek) [Ordinary differential equations] 86a:34001
 (Soelinskii, A. B.) See Tikhonov, A. N. et al., 86c:34002
 Sveshnikov, A. G. See Tikhonov, A. N. et al., 86c:34002
 Tikhonov, A. N. (with Vasil'eva, A. B.; Sveshnikov, A. G.) ★ Differential equations. 86c:34002
 Vasil'eva, A. B. See Tikhonov, A. N. et al., 86c:34002
 Veretennikov, V. G. ★ Устойчивость и колебания нелинейных систем. (Russian) [Stability and oscillations of nonlinear systems] 86b:34003
 (Yankovskii, G.) See Migulin, V. V. et al., 86c:34001

secondary classifications (34-01)

- Artigue, Michèle (with Gautheron, Véronique) ★ Systèmes différentiels. (French) [Differential systems] 86i:58001
 Bleyer, A. See Preuss, W. et al., 86h:46003a and 86h:46003b
 Bondarenko, B. A. ★ Операторные алгоритмы в дифференциальных уравнениях. (Russian) [Operator algorithms in differential equations] 86d:47001
 Gautheron, Véronique See Artigue, Michèle, 86i:58001
 Kryszewski, Włodzisław (with Włodarski, Lech) ★ Analiza matematyczna w zadaniach. Część II. (Polish) [Mathematical analysis in problems. Part II] 86c:00007
 Preuß, Heinrich See Preuss, W. et al., 86h:46003a and 86h:46003b
 Preuss, W. (with Bleyer, A.; Preuß, Heinrich) ★ Distributionen und Operatoren. (German) [Distributions and operators] 86h:46003a
 (with Bleyer, A.; Preuß, Heinrich) ★ Distributionen und Operatoren. (German) [Distributions and operators] 86h:46003b
 Vekua, N. P. ★ Dip'erenc'ialur gantolebat' t'eoris zogierti sakit'xi da mat'i gamogeneba mek'anikaši. (Georgian) [Some problems of the theory of differential equations and their application in mechanics] 86b:00014
 Włodarski, Lech See Kryszewski, Włodzisław, 86c:00007

34-02 Advanced exposition (research surveys, monographs, etc.)

- Altshuler, Dmitry A. Erratum: The operator of translation along the trajectories of differential equations [English translation, Amer. Math. Soc., Providence, R.I., 1968; MR 36 #6688] by M. A. Krasnosel'skii. 86f:34001

- (Ben-El-Mechaiekh, Hichem) See Guenther, Ronald B., 86i:34003
 Guenther, Ronald B. ★ *Problèmes aux limites non linéaires pour certaines classes d'équations différentielles ordinaires.* (French) [Nonlinear boundary value problems for some ordinary differential equations] 86i:34003
 Hale, Jack K. (with Magalhães, Luis T.; Oliva, Waldyr M.) ★ *An introduction to infinite-dimensional dynamical systems—geometric theory.* 86b:34001
 Levitan, B. M. ★ *Обратные задачи Штурма-Лиувилля.* (Russian) [Inverse Sturm-Liouville problems] 86d:34002
 Magalhães, Luis T. See Hale, Jack K. et al., 86b:34001
 Oliva, Waldyr M. See Hale, Jack K. et al., 86b:34001
 Rybakowski, Krzysztof P. See Hale, Jack K. et al., 86b:34001

secondary classifications (34-02)

- (Glazebrook, James) See Vallron, Georges, 86c:01064
 (Gohberg, Israel) See Krein, M. G., 86m:00014
 (Jacob, Andrei) See Krein, M. G., 86m:00014
 Krasnoschekov, P. S. (with Petrov, A. A.) ★ *Принципы построения моделей.* (Russian) [Principles of model construction] 86a:00020
 Krein, M. G. ★ *Topics in differential and integral equations and operator theory.* 86m:00014
 Matsuno, Yoshimasa ★ *Bilinear transformation method.* 86f:35163
 Pavel, N. H. ★ *Differential equations, flow invariance and applications.* 86g:58027
 Petrov, A. A. See Krasnoschekov, P. S., 86a:00020
 Vallron, Georges ★ *The geometric theory of ordinary differential equations and algebraic functions.* 86c:01064
 Wasow, Wolfgang ★ *Linear turning point theory.* 86f:34114
 Wendt, Werner ★ *Eine Klasse von linearen Funktionaldifferentialgleichungen und deren diskrete Approximationen.* (German) [A class of linear functional differential equations and their discrete approximations] 86b:34082

34-03 Historical (must also be assigned at least one classification number from Section 01)

secondary classifications (34-03)

- Demidov, S. S. *On the history of the theory of linear differential equations.* 86b:01018
 (Glazebrook, James) See Vallron, Georges, 86c:01064
 Korolyuk, L. G. (with Kushnir, E. A.) *Geometric problems in the work of J. Herschel.* (Russian) 86j:01026
 See also Kushnir, E. A., 86i:01002
 Kushnir, E. A. (with Korolyuk, L. G.) *The integral transformation method in the development of the theory of difference and differential equations.* (Ukrainian. Russian summary) 86i:01002
 See also Korolyuk, L. G., 86j:01026
 Ostrowski, Alexander ★ *Collected mathematical papers.* Vol. 4. 86m:01075d
 Roshko, E. K. *The first works on the Green matrix for ordinary differential equations.* (Russian) 86i:01043a
 On the history of the generalized Green function. (Russian) 86i:01043b
 Sharkovskii, A. N. (with Shevelo, V. N.) *Development of the theory of differential equations at the Institute of Mathematics of the Academy of Sciences of the Ukrainian SSR.* (Russian) 86j:01033
 Shevelo, V. N. See Sharkovskii, A. N., 86j:01033
 Vallron, Georges ★ *The geometric theory of ordinary differential equations and algebraic functions.* 86c:01064
 Verhulst, F. *Perturbation theory from Lagrange to van der Pol.* 86j:01006
 Bibliography:
 Ostrowski, Alexander M. See Ostrowski, Alexander, 86m:01075d

34-04 Explicit machine computation and programs (not the theory of computation or programming)

secondary classifications (34-04)

- Kempf, James A. See Wood, E. F. et al., 86b:58001
 Mehra, Raman K. See Wood, E. F. et al., 86b:58001
 Wood, E. F. (with Kempf, James A.; Mehra, Raman K.) *BISTAB: a portable bifurcation and stability analysis package.* 86b:58001

34-06 Proceedings, conferences, etc.

- (Irtgov, V. D.) See Stability of motion, 86j:34001
 (Klokov, J.) See Nonlinear boundary value problems of ordinary differential equations, 86c:34004
 (Makarov, I. P.) See Differential equations, 86d:34004
 (Mas'kin, N. M.) See Problems in the qualitative theory of differential equations, 86c:34005
 (Matrosov, V. M.) See Stability of motion, 86j:34001
 (Mitropol'skii, Yu. A.) See Approximate methods of analysis of nonlinear oscillations, 86d:34003; Conference: Nonlinear oscillations, 86d:34002 and 86f:34003
 (Mukharlyamov, R. G.) See Differential equations and inverse problems of dynamics, 86c:34003
 (Scherbakov, B. A.) See Differential equations and dynamical systems, 86d:34005
 (Vokresenskii, E. V.) See Some problems on the qualitative theory of differential equations and the theory of the control of m, 86g:34001
 Approximate methods of analysis of nonlinear oscillations ★ *Приближенные методы анализа нелинейных колебаний.* (Russian) [Approximate methods of analysis of nonlinear oscillations] 86d:34003
 Conference:
 Nonlinear oscillations ★ *IX Международная конференция по нелинейным колебаниям. Том 1.* (Russian) [Ninth international conference on nonlinear oscillations. Vol. 1] 86f:34002

Differential equations ★ *Дифференциальные уравнения.* (Russian) [Differential equations] 86d:34004

Differential equations and dynamical systems ★ *Дифференциальные уравнения и динамические системы.* (Russian) [Differential equations and dynamical systems] 86d:34005

Differential equations and inverse problems of dynamics ★ *Дифференциальные уравнения и обратные задачи динамики.* (Russian) [Differential equations and inverse problems of dynamics] 86c:34003

Kiev ★ *IX Международная конференция по нелинейным колебаниям. Том 1.* (Russian) [Ninth international conference on nonlinear oscillations. Vol. 1] 86f:34002

Nonlinear boundary value problems of ordinary differential equations ★ *Нелинейные краевые задачи обыкновенных дифференциальных уравнений.* (Russian) [Nonlinear boundary value problems of ordinary differential equations] 86c:34004

Problems in the qualitative theory of differential equations ★ *Вопросы качественной теории дифференциальных уравнений.* (Russian) [Problems in the qualitative theory of differential equations] 86c:34005

Some problems on the qualitative theory of differential equations and the theory of the control of motion ★ *Некоторые вопросы качественной теории дифференциальных уравнений и теории управления движением.* (Russian) [Some problems on the qualitative theory of differential equations and the theory of the control of motion] 86g:34001

Stability of motion ★ *Устойчивость движения.* (Russian) [Stability of motion] 86j:34001

secondary classifications (34-06)

- (Henderson, Johnny) See Differential and integral equations, 86j:00011
 (Kawakami, Hiroshi) See Theory of dynamical systems and its applications to nonlinear problems, 86f:58003
 (Knowles, Ian W.) See Differential equations, 86f:00016
 (Lando, Yu. K.) See Linear functional-differential correspondences, 86d:00008
 (Lefschütz, G. M.) See Differential equations and some of their applications, 86d:00006
 (Lewis, Roger T.) See Differential equations, 86f:00016
 Argonne, Ill. ★ *Differential and integral equations.* 86j:00011
 Birmingham, Ala. ★ *Differential equations.* 86f:00016
 Conference:

Differential equations ★ *Differential equations.* 86f:00016

Midwest, differential and integral equations ★ *Differential and integral equations.* 86j:00011

Congress:

Differential equations and applications ★ *Actas del VII congreso de ecuaciones diferenciales y aplicaciones.* (Spanish) [Proceedings of the seventh congress on differential equations and applications] 86g:00009

Differential and integral equations ★ *Differential and integral equations.* 86j:00011

Differential equations ★ *Differential equations.* 86f:00016

Differential equations and some of their applications ★ *Дифференциальные уравнения и некоторые их приложения.* (Russian) [Differential equations and some of their applications] 86d:00006

Granada ★ *Actas del VII congreso de ecuaciones diferenciales y aplicaciones.* (Spanish) [Proceedings of the seventh congress on differential equations and applications] 86g:00009

Iowa City, Iowa ★ *Differential and integral equations.* 86j:00011

Kyoto ★ *The theory of dynamical systems and its applications to nonlinear problems.* 86f:58003

Linear functional-differential correspondences ★ *Линейные функционально-дифференциальные соответствия.* (Russian) [Linear functional-differential correspondences] 86d:00008

Meeting:

Theory of dynamical systems and its applications to nonlinear problems ★ *The theory of dynamical systems and its applications to nonlinear problems.* 86f:58003

Proceedings:

Congress on differential equations and applications ★ *Actas del VII congreso de ecuaciones diferenciales y aplicaciones.* (Spanish) [Proceedings of the seventh congress on differential equations and applications] 86g:00009

Theory of dynamical systems and its applications to nonlinear problems ★ *The theory of dynamical systems and its applications to nonlinear problems.* 86f:58003

34Axx General theory

34A05 Solutions in closed form, integration by quadratures, reduction of differential equations

Airault, Hélène (with Kaliappan, P.) *Solutions particulières de l'équation $u'' - \lambda u' = u(u-1)(u-a)$.* (English summary) [Some solutions of the equation $u'' - \lambda u' = u(u-1)(u-a)$] 86b:34004

Atanasiu, D. (with Craiu, Mariana) *A method for determining the solutions of a system of differential equations.* (Romanian. English summary) 86a:34002

Babariko, N. N. (with Gorbuzov, V. N.) *On the question of the integrability of first-order nonlinear differential equations.* (Russian. English summary) 86g:34002

Bhutani, O. P. (with Mital, Poornima) *On the first integral of the nonlinear shallow-membrane equation via Noether's theorem.* 86m:34002

Botashev, Kh. I. *Localization of exact solutions in the case of second-order quasilinear systems.* (Russian) 86a:34003

Braude, S. Ya. *Integrability in quadratures of certain types of second-order ordinary nonlinear differential equations.* (Russian. English summary) 86j:34002

Brünger, G. *Eine explizite "ähnliche Lösung" der Grenschichttheorie.* [An explicit "similar solution" of the theory of boundary layers] 86f:34004

Chernyaev, A. P. *Solution of linear homogeneous differential equations with variable coefficients of a certain class.* (Russian) 86c:34006

Craiu, Mariana See Atanasiu, D., 86a:34002

- Gerasimov, I. A. Solution of differential equations by means of the Weierstrass p -function. (Russian. English summary) **86c:34003**
 Gorbunov, V. N. See Babariko, N. N., **86g:34002**
 Kachevskii, D. N. First integrals of a system of differential equations. (Russian) **86b:34005**

Kallappan, P. See Alraut, Hélène, **86b:34004**

- Kapcia, Andrzej Compléments aux traités de Kamke et de Murphy. IV. Quelques critères suffisants d'intégrabilité effective de l'équation différentielle linéaire et homogène du second ordre à deux coefficients arbitraires. [Additions to the treatises of Kamke and Murphy. IV. Some sufficient criteria for the effective integrability of a second-order homogeneous linear differential equation with two arbitrary coefficients] **86c:34007**

Compléments aux traités de Kamke et de Murphy. VII. Une méthode de l'obtention des classes de l'équation différentielle linéaire et homogène du second ordre effectivement intégrables. [Additions to the treatises of Kamke and Murphy. VII. A method for obtaining effectively integrable classes of second-order homogeneous linear differential equations] **86c:34008**

Les équations différentielles implicites par rapport à la dérivée des familles de fonctions définies paramétriquement. II. [Implicit differential equations with respect to the derivative of families of functions defined parametrically. II] **86m:34003**

- Kard, P. One-dimensional wave equations solvable in closed form. (Russian. English and Estonian summaries) **86a:34004**

Some transformations of linear differential equations. (Russian. English and Estonian summaries) **86i:34004**

A method for obtaining and solving new one-dimensional wave equations. (Russian. English and Estonian summaries) **86i:34005**

- Kowalski, Krzysztof Linearization of homogeneous Riccati systems. **86c:34009**

- Leach, P. G. L. First integrals for the modified Emden equation $\ddot{q} + \alpha(t)\dot{q} + q^n = 0$. **86k:34001**

- Leipnik, R. B. A canonical form and solution for the matrix Riccati differential equation. **86f:34005**

- Martynov, I. P. Application of series of exponentials to differential systems of n th order. (Russian. English summary) **86a:34005**

- Mital, Poornima See Bhutani, O. P., **86m:34002**

- Mkrumyan, R. R. A special second-order linear equation. (Russian. English summary) **86c:34010**

- Pedraza González, Juan Elementary integration of the second-order linear differential equation. (Spanish) (See **86j:00013**)

- Popov, G. E. Some integrable equations with a small parameter that are close to Liénard's equation. (Russian) **86g:34003**

- Prokashova, V. A. Functions defined by a system of Painlevé type with a cubic nonlinearity. (Russian. English summary) **86c:34011**

- Sabata, Hideki Nonlinear oscillators with double terms. (Japanese summary) **86j:34003**

- Šapkarev, Ilja A. Über die Rodriguesformel und eine ihre Anwendung. (Macedonian summary) [On the Rodrigues formula and one of its applications] **86c:34012**

- Sorine, Michel (with Winternitz, P.) Superposition laws for solutions of differential matrix Riccati equations arising in control theory. **86c:34013**

- Stolyarov, G. V. Integration of the equations of motion of the satellites of Saturn. (Russian. English summary) (See **86g:34001**)

- Winternitz, P. See Sorine, Michel, **86c:34013**

- Zolotarev, S. A. Some cases of the integrability of differential equations of the form $y'' + p(x)y' + h(x)y + f(x)F(y, k(x)) = 0$. (Russian) **86g:34004**

secondary classifications (34A05)

- Bountis, Tassos C. (with Ramani, A.; Grammaticos, B.; Dorizzi, B.) On the complete and partial integrability of non-Hamiltonian systems. **86d:58043**

- Chumakov, S. M. See Lesnov, A. N. et al., **86b:58062**

- Dorizzi, B. See Bountis, Tassos C. et al., **86d:58043**

- Glinos, Nikolaos (with Saunders, B. David) Operational calculus techniques for solving differential equations. **86c:34015**

- Grammaticos, B. See Bountis, Tassos C. et al., **86d:58043**

- Gromak, V. I. Reducibility of the Painlevé equations. (Russian) **86a:34015**

- Lakshmanan, M. (with Sahadevan, R.) Coupled quartic anharmonic oscillators, Painlevé analysis, and integrability. **86j:58055**

- Lesnov, A. N. (with Man'ko, V. I.; Chumakov, S. M.) Ordinary second-order differential equations and soliton solutions connected with the algebra $sl(2, \mathbb{C})$. **86b:58062**

- Man'ko, V. I. See Lesnov, A. N. et al., **86b:58062**

- Peters, J. M. H. An exact solution of the anharmonic motion equation. **86c:70029**

- Ramani, A. See Bountis, Tassos C. et al., **86d:58043**

- Sahadevan, R. See Lakshmanan, M., **86j:58055**

- Saunders, B. David See Glinos, Nikolaos, **86c:34015**

- Savagau, Michael A. See Voit, Eberhard O., **86a:92006**

- Serov, N. I. Solution of the Riccati equation. (Russian. English summary) **86b:58110**

- Voit, Eberhard O. (with Savagau, Michael A.) Analytical solutions to a generalized growth equation. **86a:92006**

- 34A08 Equations not solved with respect to the highest-order derivative, singular solutions

- Bruckner, A. M. (with Rosenfeld, Melvin; Rubel, Lee A.) The Darboux property and solutions of algebraic differential equations. **86f:34006**

- Chistyakov, V. F. Properties of quasilinear degenerate systems of ordinary differential equations. (Russian) **86b:34006**

- Diblík, Josef Solutions of a singular system of differential equations which is not solved with respect to the derivatives. (Russian) **86m:34004**

- Doless, Vaclav Generalized solutions of semistate equations. (See **86f:93009**)

- Rosenfeld, Melvin See Bruckner, A. M. et al., **86f:34006**

- Rubel, Lee A. See Bruckner, A. M. et al., **86f:34006**

secondary classifications (34A08)

- Dziurła, B. (with Newcomb, R. W.) A continuation-type method for solving semistate equations. (See **86f:93009**)

- Khabbas, S. A. Resolving the singularities of differential equations. (Arabic summary) **86b:33023**

- Landis, Dale L. Singular solutions: a geometric approach. **86c:58083**

- Märs, R. Multistep methods for initial value problems in implicit differential-algebraic equations. **86a:65061**

- Newcomb, R. W. See Dziurła, B., **86f:93009**

- Prosenyuk, L. G. See Yatsenko, S. A., **86j:34046**

- Schulze, Reinhard ROSINE/DNBIFU ein Programm zur Behandlung von Randwertaufgaben in impliziten Differentialgleichungen mit Entartungen. [ROSINE/DNBIFU—a program for the treatment of boundary value problems in implicit differential equations with deviations] (See **86d:65013**)

- Yatsenko, S. A. (with Prosenyuk, L. G.) The power asymptotic behavior of solutions of a system of differential equations not solved with respect to a derivative. (Russian) **86j:34046**

- 34A10 Initial value problems: general existence and uniqueness theorems; continuous dependence of solutions on parameters, initial conditions and boundary conditions [See also 45D05.]

- Arrate Pena, Manuel On Nagumo's uniqueness condition. (Spanish. English summary) (See **86b:00009a**)

- Chistyakov, V. F. Linearization of degenerate systems of quasilinear ordinary differential equations. (Russian) **86g:34005**

- Falsief, S. Construction of a parametric transfer function for a generalized Euler equation. (Russian. English summary) **86f:34007**

- Fraňková, Marta The problem of the railway goods traffic. (Russian and Slovak summaries) **86c:34003**

- Griepentrog, E. Initial value problems for implicit differential equation systems. **86j:34004**

- Grisińska, G. (with Klokova, J.) An initial-value problem for a second-order equation with a nonsummable singularity. (Russian) **86c:34004**

- Grünbaum, F. Alberto An inverse problem related to the Bloch equations and a nonlinear Fourier transform. **86k:34002**

- Heunis, A. J. Continuous dependence of the solutions of an ordinary differential equation. **86f:34008**

- Isofov, N. A. Kneser solutions. (Russian) **86b:34002**

- Khurodas, T. A. Uniqueness and nonlocal continuability of solutions of systems of differential equations. (Russian. English and Georgian summaries) **86c:34005**

- Klokova, J. See Grisińska, G., **86c:34004**

- Lipsa, Radu La généralisation des conditions de l'existence du régime de fonctionnement limite pour un agrégat. (German and Romanian summaries) [Generalization of the conditions for the existence of the limit regime for an aggregate] **86m:34005**

- Martynov, I. P. A class of third-order equations without moving critical points. (Russian. English summary) **86d:34006**

- Märs, R. Correctness and isolatedness in the case of initial and boundary value problems in differential algebraic equations. **86d:34007**

- Miyake, Masataka On the determinant of matrices of ordinary differential operators and an index theorem. **86c:34014**

- Nazarov, V. I. A first-order nonlinear differential equation in Roumieu spaces. (Russian. English summary) **86b:34007**

- Palamides, P. K. Kneser's type properties at the extreme points. **86i:34006**

- Ponomarev, V. D. The subfunction and lower function for a second-order ordinary differential equation. (Russian) **86b:34008**

- Ray, J. R. See Reid, J. L., **86j:34005**

- Reid, J. L. (with Ray, J. R.) The initial value problem for the Ermakov-Pinney equation. **86j:34005**

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- Vainila, A. Continuity properties of a class of hysteresis functionals. **86f:34009**

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- Akizhanov, A. A. (with Kashkimbaeva, Z. A.; Akizhanova, A. A.) Solution of the modified Korteweg-de Vries equation. (Russian. Kazakh summary) **86c:35124**

- Akizhanova, A. A. See Akizhanov, A. A. et al., **86c:35124**

- Chistyakov, V. F. Properties of quasilinear degenerate systems of ordinary differential equations. (Russian) **86b:34006**

- Diblík, Josef Solutions of a singular system of differential equations which is not solved with respect to the derivatives. (Russian) **86m:34004**

- Filippov, V. V. An axiomatic theory of spaces of solutions of ordinary differential equations and differential inclusions. (Russian) **86g:34012**

- Glaeske, H.-J. (with Marichev, O. I.) The Laguerre transform of some elementary functions. (German and Russian summaries) **86a:44005**

- Györfi, János Lakunäre Spine-Funktion und das Cauchy-Problem. [Lacunary spline function and the Cauchy problem] **86m:55077**

- Horová, Ivana Linear positive operators and their applications to differential equations. **86i:10027**

- Igumov, V. P. Representation of solutions of differential equations by modified Lie series. (Russian) **86a:34016**

- Kashkimbaeva, Z. A. See Akizhanov, A. A. et al., **86c:35124**

- Marichev, O. I. See Glaeske, H.-J., **86a:44005**

- Milman, Mark Special factorization and Riccati integral equations. **86g:45018**

- Taylor, James G. Battle-outcome prediction for an extended system of Lanchester-type differential equations. **86c:90144**

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- El-Owaidy, Hassan M. (with Zagrou, Afaf A. S.) A note on second order nonlinear differential equations. **86b:34009**
- Hara, Tadayuki (with Yoneyama, Toshiaki; Sugie, Jitsuro) Noncontinuation results for differential equations by several Liapunov functions. **86c:34006**
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(with Yoneyama, Toshiaki; Sugie, Jitsuro) Necessary and sufficient conditions for the continuability of solutions of the system $x' = y - F(x)$, $y' = -g(x)$. **86i:34007**
- Isobov, N. A. Continuable and noncontinuable solutions of a nonlinear differential equation of arbitrary order. (Russian) **86d:34009**
- Markov, S. N. The behavior of solutions of third-order systems under analytic continuation. (Russian) **86f:34010**
- Pankratova, T. F. The Schrödinger equation. A theorem on ansatz representation of the solution concentrated near the minimum of the potential. (Russian. English summary) **86d:34010**
- Sugie, Jitsuro Continuation results for differential equations without uniqueness by two Liapunov functions. **86a:34006**
See also Hara, Tadayuki et al., **86c:34006**; **86c:34015** and **86i:34007**
- Yoneyama, Toshiaki See Hara, Tadayuki et al., **86c:34006**; **86c:34015** and **86i:34007**
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- Khurudse, T. A. Uniqueness and nonlocal continuability of solutions of systems of differential equations. (Russian. English and Georgian summaries) **86c:34005**
- Kohno, Mitsuhiro A multipoint connection problem. **86b:34019**
- Makino, Tetu On the existence of positive solutions at infinity for ordinary differential equations of Emden type. **86m:34031**
- Rheinboldt, Werner C. Differential-algebraic systems as differential equations on manifolds. **86c:58131**
- Sugie, Jitsuro Continuity of solutions of the generalized Liénard system with time delay. **86c:34129**

34A20 Differential equations in the complex domain [See also 30D05.]

- Ablowitz, Mark J. See Fokas, A. S., **86b:34011**
- Antonino Andréu, José A. (with Calvo, V.; Martínez, M. D.; Romaguera, S.) Convexity of the set of solutions of the differential inequality $|f'(z)|(1 - |z|^2) \leq 1$. (Spanish) (See **86g:00009**)
- Babadshanyants, L. K. (with Mgoan, P. B.) Estimate of holomorphic solutions of ordinary differential equations. (Russian. English summary) **86a:34007**
- Babbitt, Donald G. (with Varadarajan, V. S.) Formal reduction theory of meromorphic differential equations: a group theoretic view. **86b:34010**
- Balser, W. A constructive existence proof for first level formal solutions of meromorphic differential equations. **86m:34007**
- Bank, Steven B. (with Laine, Ilpo) On the zeros of meromorphic solutions and second-order linear differential equations. **86a:34008**
- Bureau, F. J. Systèmes différentiels à points critiques fixes. II. Points singuliers des intégrales. [Differential systems with fixed points. II. Singular points of integrals] **86c:34016a**
Systèmes différentiels à points critiques fixes. III. Points singuliers des intégrales. [Differential systems with fixed critical points. III. Singular points of integrals] **86c:34016b**
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- Calvo, V. See Antonino Andréu, José A. et al., **(86g:00009)**
- Dattoli, G. (with Mignani, R.; Torre, A.) An introductory view about Raman-Nath-type equations. **86b:34003**
- Dhami, H. S. Related differential equations. **86d:34011**
- Dietrich, Volker Über Reduzierbarkeit und maximale Ordnung bei linearen Differentialgleichungssystemen. (English summary) [On reducibility and maximal order in linear systems of differential equations] **86b:34004**
- Dörfler, Peter Lineare Differentialgleichungen ohne multivalente Lösungen. [Linear differential equations without multivalent solutions] **86c:34019**
- Dryadyk, V. K. On the theory of linear equations of Fuchs type. (Russian) (Not in MR)
- Eenigenburg, Paul (with Miller, Sanford S.; Mocanu, Petru T.; Reade, Maxwell O.) On a Briot-Bouquet differential subordination. **86c:34020**
- Fokas, A. S. (with Ablowitz, Mark J.) On the initial value problem of the second Painlevé transcendent. **86b:34011**
- Gorbunov, V. N. (with Krushel'nikil, A. A.) An autonomous quadratic system in the case of a pole at infinity. (Russian. English summary) **86m:34008**
- He, Yu Zan (with Xiao, Xiu Zhi) Admissible solutions of ordinary differential equations. **86a:34009**
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- Ifantis, E. K. (with Siafarikas, P. D.; Kouris, C. B.) Conditions for solution of a linear first-order differential equation in the Hardy-Lebesgue space and applications. **86c:34007**
- Kametaka, Yoshinori On poles of the rational solution of the Toda equation of Painlevé-IV type. **86b:34012**
- Kessl, A. Equations with fixed critical singular points of the type $\omega^m = P_{2m}(z, \omega)$ and their integration. (Russian) **86i:34008**
- Kimura, Hironobu (with Okamoto, Kazuo) On the polynomial Hamiltonian structure of the Garnier systems. **86c:34008**
- Kohno, Mitsuhiro Derivatives of Stokes multipliers. **86i:34009**
(with Yokoyama, Toshiaki) A central connection problem for a normal system of linear differential equations. **86i:34010**
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- Krushel'nikil, A. A. See Gorbunov, V. N., **86m:34008**
- Laine, Ilpo See Bank, Steven B., **86a:34008**
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- Lyalkova, V. I. A third-order equation with fixed critical points and multiple poles. (Russian. English summary) **86a:34010**
- Makeev, N. G. Conditions for the existence of a holomorphic integral in the neighborhood of a complex singular point. (Russian) **86a:34011**
- Martínez, M. D. See Antonino Andréu, José A. et al., **(86g:00009)**
- Matveenko, N. M. Asymptotic solution of a system of second-order linear differential equations with an irregular singular point. (Russian. English summary) **86c:34010**
- Mgoan, P. B. See Babadshanyants, L. K., **86a:34007**
- Mignani, R. See Dattoli, G. et al., **86b:34003**
- Miller, Sanford S. (with Mocanu, Petru T.) Univalent solutions of Briot-Bouquet differential equations. **86a:34012**
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See also Eenigenburg, Paul et al., **86c:34020**
- Miyake, Masatake On the irregularity for general systems of differential equations in the complex domain. **86c:34011**
- Mocanu, Petru T. See Miller, Sanford S., **86a:34012**; Eenigenburg, Paul et al., **86c:34020** and Miller, Sanford S., **86m:34009**
- Mokhon'ko, V. D. Algebraic solutions of differential equations with algebraic coefficients. (Russian) **86a:34013**
- Mues, E. Ordinary differential equations in the complex domain. (See **86b:30001a**)
(with Redheffer, Ray) Über eine Differentialgleichung m -ter Ordnung im Komplexen. (English summary) [On an m th order differential equation in the complex domain] **86f:34011**
- Novokhennov, V. Yu. The method of isomonodromic deformation and the asymptotics of the third Painlevé transcendent. (Russian) **86a:34014**
- Okamoto, Kazuo See Kimura, Hironobu, **86c:34008**
- Ramis, J.-P. Théorèmes d'indices de Gevrey pour les équations différentielles ordinaires. (English summary) [Gevrey index theorems for ordinary differential equations] **86c:34021**
- Reade, Maxwell O. See Eenigenburg, Paul et al., **86c:34020**
- Redheffer, Ray See Mues, E., **86f:34011**
- Romaguera, S. See Antonino Andréu, José A. et al., **(86g:00009)**
- Schäffke, F. W. Zur (konfluent) Fuchschen Differentialgleichung 2. Ordnung. (English summary) [On the (confluent) Fuchsian differential equation of second order] **86b:34013**
- Shimomura, Shun Analytic integration of some nonlinear ordinary differential equations and the fifth Painlevé equation in the neighbourhood of an irregular singular point. **86g:34006**
- Siafarikas, P. D. Conditions for analytic solutions of a singular differential. **86d:34012**
On the number of analytic solutions of a singular differential system. **86f:34012**
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- Skorupski, Andrzej A. Double phase-integral approximations: a systematic simplification technique for wave equations with cutoffs and resonances. **86k:34003**
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- Sleeman, B. D. (with Smith, P. D.) Floquet theory for doubly-periodic differential equations and a number theory conjecture. **86c:34012**
(with Smith, P. D.; Wright, G. P.) Doubly-periodic Floquet theory. **86c:34013**
- Smith, P. D. See Sleeman, B. D., **86c:34012** and **86c:34013**
- Toda, Nobushige On the growth of nonadmissible solutions of the differential equation $(w')^n = \sum_{j=0}^m a_j w^j$. **86b:34014**
On the growth of meromorphic solutions of an algebraic differential equation. **86c:34014**
- Torre, A. See Dattoli, G. et al., **86b:34003**

- Tseng'nik, V. V. On the theory of the sixth Painlevé equation. (Russian. English summary) **86d:34013**
 Varadarajan, V. S. See Babbitt, Donald G., **86b:34010**
 Wagenführer, Ekkehard On the regularity of systems of linear differential equations at singular points. **86f:34014**
 Wright, G. P. See Sleeman, B. D. et al., **86c:34013**
 Xiao, Xu Zhi (with He, Yu Zan) Meromorphic and algebroid solutions of higher-order algebraic differential equations. **86b:34015**
 See also He, Yu Zan, **86a:34009**
 Yokoyama, Toshiaki See Kohno, Mitsuhiro, **86i:34010**

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- Babbitt, Donald G. (with Varadarajan, V. S.) Local moduli for meromorphic differential equations. **86g:32037**
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 Bank, Steven B. (with Frank, Günter) A note on the distribution of zeros of solutions of linear differential equations. **86b:34006**
 Boutet de Monvel, L. Problème de Riemann-Hilbert. I. Rappels sur les équations différentielles et les connexions. [The Riemann-Hilbert problem. I. Review of differential equations and connections] **86e:58074**
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 Das, A. G. (with Lahiri, B. K.) Dirichlet series solutions of differential equations. **86d:34013**
 Douady, Adrien Problème de Riemann-Hilbert. II. Solution pour des points singuliers réels. [The Riemann-Hilbert problem. II. Solution for real singular points] **86e:58075**
 Epifanov, O. V. Domain of Noethericity of the operator $z^n - \nabla^n / dz^n$ in a space of entire functions. (Russian) **86i:47039**
 Frank, Günter See Bank, Steven B., **86b:34006**
 Gérard, R. Une classe d'équations différentielles non linéaires à singularité régulière. (English summary) [A class of nonlinear ordinary differential equations with a regular singularity] **86f:58126**
 Helmuth, Winfried (with Nikolaus, Johannes) Ein elementarer Beweis bei der Anwendung der Zentralindexmethode auf Differentialgleichungen. (English summary) [An elementary proof in the application of the central index method to differential equations] **86a:30045**
 Ibragimov, I. I. (with Kuzhnrchuk, I. F.) Equivalence of differential operators with a regular weakly singular point. (Russian. English and Azerbaijani summaries) **86g:47061**
 Kalas, Josef On certain asymptotic properties of the solutions of the equation $\dot{z} = f(t, z)$ with a complex-valued function f . **86f:34089**
 Kalitina, B. S. Estimate of the domain of attraction in the noncritical case. (Russian. English summary) **86i:34086**
 Kimura, Hiromitsu (with Okamoto, Kazuo) On the isomonodromic deformation of linear ordinary differential equations of higher order. **86g:58109**
 Kimura, Toshihisa Équations différentielles dans le champ complexe. [Differential equations in the complex field] **86b:01077**
 Klaris, Bernard (with Sadler, Charles) Study of a linear connection of several variables in the neighbourhood of an irregular singularity with normal crossing. **86g:32017**
 Kulken, Kathryn (with Masterson, John T.) On the monodromy groups of lifted Euler equations. **86g:30060**
 Kuzhnrchuk, I. F. See Ibragimov, I. I., **86g:47061**
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 Leung, Y. J. Notes on Loewner differential equations. (See **86m:30007**)
 Loday-Richaud, Michèle Théorèmes d'indices dans les espaces de type Gevrey généralisé. [Index theorems in spaces of generalized Gevrey type] **86g:58125**
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 Matveenko, N. M. See Shkil', N. I., **86b:34100**
 Nikolaus, Johannes See Helmuth, Winfried, **86a:30045**
 Nishimoto, Katsuyuki An application of fractional calculus to the differential equation of Fuchs type $\varphi_2 \cdot z + \varphi_1 \cdot (z - az) - \varphi \cdot av = f$. **86g:26007**
 Okamoto, Kazuo See Kimura, Hiromitsu, **86g:58109**
 Palusny, Marco On periodic solutions of polynomial ODEs in the plane. **86g:34054**
 Prokashova, V. A. Functions defined by a system of Painlevé type with a cubic nonlinearity. (Russian. English summary) **86c:34011**
 First-order homogeneous systems without moving critical points (the case $A_0 = 0$). (Russian) **86d:34052**
 Ramis, J.-P. Phénomène de Stokes et filtration Gevrey sur le groupe de Picard-Vessiot. (English summary) [The Stokes phenomenon and Gevrey filtration on the Picard-Vessiot group] **86i:12012**
 Reich, Axel Über Dirichlet'sche Reihen und holomorphe Differentialgleichungen. (English summary) [On Dirichlet series and holomorphic differential equations] **86b:30006**
 Sadler, Charles See Klaris, Bernard, **86g:32017**
 Shkil', N. I. (with Matveenko, N. M.) Asymptotic solution of a system of second-order linear differential equations with an irregular singular point. (Russian) **86b:34100**
 Varadarajan, V. S. See Babbitt, Donald G., **86b:34010**
 Vogt, F. Über eine Integraltransformation mit logarithmisch verzweigtem Kern und deren Anwendung bei gewissen Typen linearer Funktional-Differentialgleichungen. [On an integral transformation with logarithmically branched kernel and its application in certain types of linear functional-differential equations] **86b:44006**
 Wagenführer, Ekkehard On the invariants measuring the irregularity of a system of linear differential equations at a singular point. **86a:34017**

34A25 Analytical theory: series, transformations, transforms, operational calculus, etc. [See also 44-XX, 47E05.]

Advani, S. H. See Torok, J. S., **86j:34008**

- Chisholm, J. S. R. Continued fraction solution of the general Riccati equation. **86c:34023**
 Chudnovsky, D. V. (with Chudnovsky, G. V.) Travaux de J. Drach (1919). **86i:34011**
 Chudnovsky, G. V. See Chudnovsky, D. V., **86i:34011**
 Danilyuk, V. I. Centro-affine concomitants of a quadratic-cubic two-dimensional differential system. (Russian) **86j:34006**
 Das, A. G. (with Lahiri, B. K.) Dirichlet series solutions of differential equations. **86d:34013**
 Falslev, S. An operator method of solution of a system of differential equations with polynomial coefficients. (Russian) **86b:34016**
 Glinos, Nikolaos (with Saunders, B. David) Operational calculus techniques for solving differential equations. **86c:34015**
 Gromak, V. I. Reducibility of the Painlevé equations. (Russian) **86a:34015**
 Hilali, Aziz Characterization of a linear differential system with a regular singularity. **86g:34007**
 Igumov, V. P. Representation of solutions of differential equations by modified Lie series. (Russian) **86c:34016**
 Kovalevskii, M. A. Difference equations for determination of multipliers of a relation. (Russian) **86c:34016**
 Integral representation of solutions and the problem of connection multipliers for a linear differential equation. (Russian. English summary) **86b:34017**
 Lahiri, B. K. See Das, A. G., **86d:34013**
 Leon, Benjamin J. See Thapar, Hemant K., **86c:34018**
 Lombet-Goffart, J. Systèmes réduits associés aux systèmes polynomiaux stables de degré trois. (English summary) [Reduced systems associated with stable polynomial systems of degree three] **86f:34015**
 Lyalkova, V. I. Two third-order equations with fixed critical points. (Russian) **86f:34016**
 Neuman, František Stationary groups of linear differential equations. **86c:34017**
 Pearce, C. E. M. Holomorphic solutions about an irregular singular point of an ordinary linear differential equation. **86j:34007**
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 Shimomura, Shun Series expansions of Painlevé transcendents in the neighbourhood of a fixed singular point. **86f:34017a**
 Supplement to: "Series expansions of Painlevé transcendents in the neighbourhood of a fixed singular point". **86f:34017b**
 Sternin, B. Yu. (with Shatalov, V. E.) An integral transformation of complex analytic functions. (Russian) **86f:34018**
 Stone, James See Thiele, Everett, **86c:34023**
 Thapar, Hemant K. (with Leon, Benjamin J.) Transform-domain and time-domain characterization of nonlinear systems with Volterra series. **86c:34018**
 Thiele, Everett (with Stone, James) The driven Floquet oscillator. **86c:34023**
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 Gromak, V. I. Nonlinear evolution equations and equations of P-type. (Russian) **86c:35131**
 Martynov, I. P. Application of series of exponentials to differential systems of nth order. (Russian. English summary) **86a:34005**
 Skripnik, A. L. Application of a computer for the analytic solution of equations of nonlinear mechanics by the Krylov-Bogolyubov-Mitropolskii method. (Russian) (See **86c:34002**)
 Tuttle, W. T. Map-colourings and differential equations. **86f:05066**
 Unterberger, André The calculus of pseudodifferential operators of Fuchs type. **86d:35152**

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- Adrianova, L. Ya. Approximation of linear systems by sequences of periodic systems. (Russian) (See **86f:34003**)
 Bank, Steven B. (with Frank, Günter) A note on the distribution of zeros of solutions of linear differential equations. **86b:34006**
 Drushinin, É. I. On the theory of linear nonautonomous systems of differential equations. (Russian) (See **86f:34002**)
 Everitt, W. N. (with Key, Jennifer D.) On some properties of matrices associated with linear ordinary quasidifferential expressions. **86d:34014**
 Falslev, S. Construction of a solution of a system of linear differential equations in a neighborhood of an irregular singular point by means of matrix continued fractions. (Russian) **86i:34012**
 Frank, Günter See Bank, Steven B., **86b:34006**
 Hernández García, Vicente (with Incertis Carro, Fernando C.) On the linear matrix differential equation $X^{(k)} + A_1 X^{(k-1)} + \dots + A_{k-1} X^{(1)} + A_k X = 0$. (Spanish) **86b:34018**
 Ilievski, Boriko The Lagrange method of variation of constants in the case of an nth order areolar linear differential equation. (Macedonian. French summary) **86m:34010**
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 Lantman, M. Kh. Formal representations of solutions of a class of linear homogeneous differential equations. (Russian) **86b:34020**
 Palmer, Kenneth J. An ordering for linear differential systems and a characterization of exponential separation in terms of reducibility. **86c:34024**
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Al-Bassam, M. A. Application of fractional calculus to differential equations of Hermite's type. 86i:26004

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 Stavroulakis, I. P. See Ladas, G., **86f:34003**
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- Beale, R. The inverse problem for ordinary differential operators on the line. **86g:34011**
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- Gaismov, M. G. Uniqueness of the solution of the inverse problem of scattering theory for even-order ordinary differential equations on the whole axis. (Russian) **86f:34025**
- Ivanyan, S. M. See Arutyunyan, T. N., **86f:34024**
- Kailath, Thomas. See Bruckstein, Alfred M. et al., **86d:34020**
- Khachatryan, I. G. Necessary and sufficient conditions for solvability of the inverse scattering problem for higher-order differential operators on the half-axis. (Russian. Armenian summary) **86c:34024**
- An inverse problem for differential operators of higher orders on the whole axis. (Russian. English and Armenian summaries) **86a:34028**
- Levy, Bernard C. See Bruckstein, Alfred M. et al., **86d:34020**
- Li, Chih Hao. A Zakharov-Shabat inverse scattering problem and the associated evolution equations. **86c:34025**
- Prosser, Reese T. Approximation methods and error estimates for inverse scattering problems. **86d:34021**
- Vul'pe, I. M. Inversion of N. N. Bogolyubov's averaging theorem. (Russian) (See **86f:34002**)

secondary classifications (34A55)

- Bava, G. P. (with Ghione, G.) Inverse scattering for optical couplers. Exact solution of Marchenko equations. **86a:78013a**
- (with Ghione, G.) Erratum: "Inverse scattering for optical couplers. Exact solution of Marchenko equations". **86a:78013b**
- Carroll, Robert Wayne. Fourier type analysis and the Marchenko equation. **86c:35130**
- Cohen, Amy (with Kappeler, Thomas) Scattering and inverse scattering for steplike potentials in the Schrödinger equation. **86k:34017**
- Denisov, A. M. (with Ostrovskii, E. V.) A method of solution of the inverse scattering problem. (Russian) (See **86m:65007**)
- Ghione, G. See Bava, G. P., **86a:78013a** and **86a:78013b**
- Glasko, V. B. ★ Обратные задачи математической физики. (Russian) [Inverse problems of mathematical physics] **86f:00029**
- Isaacson, E. L. (with McKean, H. P.; Trubowitz, Eugene) The inverse Sturm-Liouville problem. II. **86f:34051**
- Ivanov, G. A. (with Popova, A. M.) On the accuracy of the reconstruction of the potential in the inverse scattering problem ($l = 0$). (Russian) **86m:81151a**
- (with Popova, A. M.) The accuracy of reconstruction of the potential in the inverse scattering problem ($l \geq 1$). (Russian) **86m:81151b**
- Kappeler, Thomas. See Cohen, Amy, **86k:34017**
- Levitan, B. M. On the spectrum of a one-dimensional Schrödinger operator whose potential is a limit of finite-zone potentials. **86c:34048**
- McKean, H. P. See Isaacson, E. L. et al., **86f:34051**
- McLaughlin, Joyce R. Bounds for constructed solutions of second and fourth order inverse eigenvalue problems. (See **86f:00016**)
- Ostrovskii, E. V. See Denisov, A. M., **(86m:65007)**
- Popova, A. M. See Ivanov, G. A., **86m:81151a** and **86m:81151b**
- Shao, Chang Gui. See Xu, Bang Qing, **86j:45028**
- Trubowitz, Eugene. See Isaacson, E. L. et al., **86f:34051**
- Xu, Bang Qing (with Shao, Chang Gui) The series solution of the Marchenko equation. **86j:45028**

34A60 Equations with multivalued right-hand sides [See also 49A50, 49E10.]

- Anichini, G. (with Zecca, Pietro) Multivalued differential equations and control problems. **86f:34026**
- Boudourides, Moses A. (with Meimaridou-Kokkou, A.) Boundedness of multivalued differential equations. **86k:34007**
- Cecchi, Mariella (with Marini, M.; Zecca, Pietro) Existence of bounded solutions for multivalued differential systems. **86j:34012**
- Cornet, Bernard. Existence of slow solutions for a class of differential inclusions. **86a:34029**
- De Blasi, F. S. (with Myjak, J.) On the solutions sets for differential inclusions. (Russian summary) **86m:34011**
- Diomedea, Lorenza (with Lisena, Benedetta) Maximal and minimal solutions for multivalued differential equations. (Italian. English summary) (See **86m:35003**)
- Fillipov, V. V. Existence and properties of solutions of ordinary differential equations and differential inclusions. (Russian) **86d:34022**
- An axiomatic theory of spaces of solutions of ordinary differential equations and differential inclusions. (Russian) **86g:34012**
- Finogenko, I. A. See Tolstogov, A. A., **86g:34013**
- Fryskowski, Andrzej. Existence of solutions of functional-differential inclusion in nonconvex case. **86i:34018**
- Haddad, Georges. Functional viability theorems for differential inclusions with memory. **86f:34027**
- Kopanskii, A. Ya. Representation of dispersive dynamical and semidynamical systems on a straight line by means of F -solutions of differential inclusions. (Russian) **86i:34019**
- Kurshanskii, A. B. Analytic description of a set of surviving trajectories of a differential system. (Russian) (Not in MR)
- Leizarowitz, Arie. Convergence of viable solutions of differential inclusions with convex compact graphs. **86j:34013**
- Lisena, Benedetta. See Diomedea, Lorenza, **(86m:35003)**
- Marini, M. See Cecchi, Mariella et al., **86j:34012**

- Meimaridou-Kokkou, A. See Boudourides, Moses A., 86f:34007
 Myjak, J. See De Blasi, F. S., 86m:34011
 Plotnikov, V. A. Averaging of differential inclusions. (Russian) (See 86f:34002)
 Rendi, B. On a differential for a class of multifunctions. 86f:34028
 Seah, Sek Wui Convergence of solutions of multivalued differential systems. 86a:34030
 Tolstomogov, A. A. (with Finogenko, I. A.) Solutions of a differential inclusion with lower semicontinuous nonconvex right-hand side in a Banach space. (Russian) 86g:34013
 Zecca, Pietro See Anichini, G., 86f:34026 and Cecchi, Mariella et al., 86j:34012

secondary classifications (34A60)

- Aseev, S. M. Quasilinear operators and their application in the theory of multivalued mappings. (Russian) 86m:46044
 Brykalov, S. A. Some boundary value problems for differential equations and inclusions. (Russian) 86f:34034
 De Blasi, F. S. (with Pianigiani, G.) Remarks on Hausdorff continuous multifunction and selections. 86a:54022
 Filippov, V. V. Luzin's theorem and right-hand sides of differential inclusions. (Russian) 86m:54019
 Kafkoss, B. (with Łojasiewicz, Stanisław, Jr.) A maximum principle for generalized control systems. 86f:49063
 Łojasiewicz, Stanisław, Jr. See Kafkoss, B., 86f:49063
 Pappas, G. S. Optimal solutions to differential inclusions in presence of state constraints. 86d:49029
 Pianigiani, G. See De Blasi, F. S., 86a:54022
 Rzepecki, Bogdan A fixed point theorem for multivalued mappings. (Russian summary) 86g:54009
 Addendum to the paper: "Some fixed point theorems for multivalued mappings". 86d:47068b
 A fixed point theorem of Krasnosel'skii type for multivalued mappings. 86j:47083
 A coincidence theorem for multivalued mappings in Banach spaces. (Serbo-Croatian summary) 86i:47080
 Shao, Jian See Zhang, Xue Ming, 86f:49046
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 Turinici, Mihai Multivalued functional-differential equations with completely transformed argument. 86m:34066
 Zhang, Xue Ming (with Shao, Jian) Sufficient conditions of optimality for differential inclusions. (Chinese. English summary) 86f:49046

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- Fedyna, M. M. Sensitivity of the spectrum of linear systems with piecewise-constant periodic coefficients having two states. (Russian. English summary) 86d:34023
 Magomedov, A. R. Some aspects of stability of solutions of differential equations with maxima. (Russian. English and Azerbaijani summaries) 86d:34024
 Shimomura, Shun Painlevé transcendents in the neighbourhood of fixed singular points. 86a:34031

secondary classifications (34A99)

- Bauder, A. See Zivi, H. S. et al., 86m:81171
 Fényes, Tomás (with Kosik, Pál) On some special second-order differential equations of the operator field. II. (Hungarian) 86c:44002
 Günthard, Hs. H. See Zivi, H. S. et al., 86m:81171
 Haug, Edward J. See Mani, Neel K., (86f:00020)
 Kosik, Pál See Fényes, Tomás, 86c:44002
 Lankovich, M. Ya. A description of all second-order differential equations having functionally invariant solutions. (Russian) (See 86d:00006)
 Mani, Neel K. (with Haug, Edward J.) Singular value decomposition for solution of differential-algebraic equations of mechanical system dynamics. (See 86f:00020)
 Nguyen Dong An' Solution of the Kolmogorov-Fokker-Planck equations for third order nonautonomous systems. (Russian) 86k:82096
 Persson, Jan Linear distribution differential equations. 86c:46043
 Rand, D. W. (with Winternits, P.) Nonlinear superposition principles: a new numerical method for solving matrix Riccati equations. 86i:58118
 Reyes, André Local geometric study of the differential equation generated by two curves. (Spanish. English summary) (See 86h:00009a)
 Sans-Serna, J. M. Convergence of the Lambert-McLeod trajectory solver and of the CELF method. 86c:65087
 Schwarz, Fritz Frans Automatically determining symmetries of ordinary differential equations. 86g:65153
 Tretkoff, C. L. (with Tretkoff, M. D.) Combinatorial group theory, Riemann surfaces and differential equations. 86g:30055
 Tretkoff, M. D. See Tretkoff, C. L., 86g:30055
 Winternits, P. See Rand, D. W., 86i:58118
 Zivi, H. S. (with Bauder, A.; Günthard, Hs. H.) Complete dynamics of a two-level quantum system in interaction with a radiation field. 86m:81171

34Bxx Boundary value problems

34B05 Linear equations

- Barnovská, M. A boundary value problem with a matrix parameter. (Russian) 86g:34014
 Berger, Gerd Überführung des Randwertproblems 1. Art zur gewöhnlichen linearen Differentialgleichung 2. Ordnung in eine Fredholmsche Integralgleichung mit glattem Kern. [Transformation of the boundary value problem of the first kind for a second-order, ordinary linear differential equation into a Fredholm integral equation with smooth kernel] 86a:34032
 Bolko, A. G. A method for solving boundary value problems. (Russian) 86c:34026

- Dzadyk, V. K. (with Ostrovetskii, L. A.) Approximation by polynomials of boundary value problems for ordinary linear differential equations. (Russian) 86c:34029
 Ellason, S. B. (with Fink, A. M.) Disconjugacy of periodic equations. 86h:34012
 Faerman, Melvin A left definite two-parameter eigenvalue problem. (See 86f:00016)
 Fink, A. M. See Ellason, S. B., 86h:34012
 Fridlyand, P. G. See Monastyrnyi, P. I., 86c:34027
 Grisaña, G. A boundary value problem for a differential equation with a nonsummable singularity. (Russian) 86d:34025
 Gudkov, V. V. Solvability of a boundary value problem from the theory of semiconductor devices. (Russian) 86a:34033
 Hernández García, Vicente (with Jódar, Lucas) Boundary value problems for Riccati equations. (Spanish) 86g:34015
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 Kenahebaev, K. On the solutions of degenerate boundary value problems. (Russian) 86f:34029
 Kiguradze, I. T. On vanishing at infinity of solutions of ordinary differential equations. 86a:34034
 Konysev, Yu. A. A general approach to asymptotic integration of singularly perturbed initial value and boundary value problems for systems of linear ordinary differential equations. (Russian) 86g:34016
 Krivas, Juozas (with Rutkauskas, Stasys) Some boundary value problems for an ordinary differential equation with a strong singularity. (Russian. English and Lithuanian summaries) 86b:34026
 Kuleshova, I. F. (with Monastyrnyi, P. I.) Calculation of critical paths for linear boundary value problems. (Russian) 86f:34030
 Monastyrnyi, P. I. (with Fridlyand, P. G.) On the theory of methods of reduction for asymptotic linear boundary value problems. (Russian. English summary) 86c:34027
 See also Kuleshova, I. F., 86f:34030
 Ng, B. S. (with Reid, W. H.) The compound matrix method for ordinary differential systems. 86f:34014
 Opyr, N. V. Construction of characteristic determinants of boundary value problems for differential equations whose coefficients have singularities of the delta-function type. (Russian) 86c:34028
 Ostrovetskii, L. A. See Dzadyk, V. K., 86c:34029
 Reid, W. H. See Ng, B. S., 86f:34014
 Ronto, V. A. Determination of boundary values of solutions of linear two-point boundary value problems. (Russian) 86c:34030
 Rutkauskas, Stasys See Krivas, Juozas, 86b:34026
 Rykhlov, V. S. The rate of equiconvergence for differential operators with nonzero coefficient multiplying the $(n-1)$ th derivative. (Russian) 86m:34012
 Teekanovskii, È. R. Characteristic function and description of accretive and sectorial boundary value problems for ordinary differential operators. (Russian. English summary) 86j:34015
 Yakovlev, A. A. Constancy of sign of the Green matrix of a periodic boundary value for a system of differential equations. (Russian) (See 86d:34004)
 Yurko, V. A. Boundary value problems with a parameter in the boundary conditions. (Russian. English and Armenian summaries) 86b:34027

secondary classifications (34B05)

- Antimirov, M. Ya. An effective method of solution of boundary value problems for a class of linear systems of differential equations. (Russian) 86b:34028
 Arkhangelskii, N. V. See Trenogin, V. A., 86c:34078
 Begashaw, Negash See Goebel, M., 86i:49025
 Boyce, William E. (with Xia, Ning Mao) Upper bounds for the means of eigenvalues of random boundary value problems with weakly correlated coefficients. 86c:34113
 Boslev, L. A. Some variational problems for degenerate second-order ordinary equations. (Russian. English and Azerbaijani summaries) 86b:49044
 Brodovskii, V. G. On the solvability of a boundary value problem for functional-differential equations. (Russian. Kazakh summary) 86i:34085
 Derner, Kh. See Mamedov, Ya. D., 86b:65056
 Dijkema, Aalt (with Langer, Heinz; de Snoo, Hendrik S. V.) Selfadjoint π_κ -extensions of symmetric subspaces: an abstract approach to boundary problems with spectral parameter in the boundary conditions. 86c:47043a
 (with Langer, Heinz; de Snoo, Hendrik S. V.) Addendum: "Selfadjoint π_κ -extensions of symmetric subspaces: an abstract approach to boundary problems with spectral parameter in the boundary conditions". 86c:47043b
 Flahel, B. (with Zahreddine, Z.) Boundary conditions and reducibility of differential operators. 86a:47048
 Goebel, M. (with Begashaw, Negash) Coefficient control in a linear second order ordinary differential equation. (German and Russian summaries) 86i:49025
 Großmann, Chr. (with Krättschmar, M.) Monotone Diskretisierung und adaptive Gittergenerierung für Zwei-Punkt-Randwertaufgaben. [Monotone discretization and adaptive lattice generation for two-point boundary value problems] (Not in MR)
 Holländer, K. Die numerische Behandlung eines singulären Randwertproblems nach der Differenzmethode. [The numerical treatment of a singular boundary value problem by using the difference method] (Not in MR)
 Kiguradze, I. T. (with Lomtatidze, A. G.) On certain boundary value problems for second-order linear ordinary differential equations with singularities. 86i:34020
 Krättschmar, M. See Großmann, Chr. (Not in MR)
 Kudryavtsev, L. D. Function spaces with a power weight. (Russian) 86b:46035
 Langer, Heinz See Dijkema, Aalt et al., 86c:47043a and 86c:47043b
 Lomtatidze, A. G. See Kiguradze, I. T., 86i:34020
 Mamedov, Ya. D. (with Derner, Kh.) Two approximate methods for solving linear boundary value problems. (Russian) 86b:65056
 Mehr, Ernst Gewöhnliche Eigenwertaufgaben zweiter Ordnung, bei denen der Parameter in einer Randbedingung auftritt. [Ordinary eigenvalue problems of second order, in which the parameter occurs in a boundary condition] 86h:34016
 O'Malley, R. E., Jr. Slow/fast decoupling—analytical and numerical aspects. (See 86f:93010)

- Pikula, M. Regularized traces of higher-order differential operators with retarded argument. (Russian) **86k:34062**
- Šeba, P. Schrödinger particle on a half line. **86j:81021**
- Shapkin, A. F. A stochastic method of solution of a boundary value problem. (Russian) **86a:34096**
- de Snoo, Hendrik S. V. See Dijkema, Aalt et al., **86e:47043a** and **86e:47043b**
- Trenogin, V. A. (with Arkhangel'skii, N. V.) Pointwise limit behavior of solutions of a boundary value problem. (Russian) **86g:34078**
- Xia, Ning Mao See Boyce, William E., **86c:34113**
- Zahreddine, Z. See Flahel, B., **86a:47048**

34B10 Multipoint boundary value problems

- Agarwal, Ravi P. Quasilinearization and approximate quasilinearization for multipoint boundary value problems. **86g:34017**
- Antimirov, M. Ya. An effective method of solution of boundary value problems for a class of linear systems of differential equations. (Russian) **86b:34028**
- Botochian, M. I. Solution of a multipoint boundary value problem for systems of differential equations. (Russian) **86f:34031**
- Cepitla, J. Solvability of a boundary value problem of mixed type for a system of second-order equations. (Russian) **86m:34013**
- Gewert, Marian A class of two-point boundary value problems for systems of ordinary differential equations. **86j:34016**
- Hamad, G. See Sobel, M., **86i:34021**
- Kiguradze, I. T. (with Lomtatidze, A. G.) On certain boundary value problems for second-order linear ordinary differential equations with singularities. **86i:34020**
- Lomtatidze, A. G. See Kiguradze, I. T., **86i:34020**
- Murty, K. N. See Rao, D. R. K. S., **86d:34026**
- Nesterenko, L. I. Existence and uniqueness of the solution of a multipoint boundary value problem for a system of ordinary differential equations. (Russian) (See **86g:00005**)
- Rao, D. R. K. S. (with Murty, K. N.) Three-point boundary value problems—existence and uniqueness theorems. **86d:34026**
- Roberts, Sanford M. Partitioning of invariant imbedding systems. **86b:34029**
- Sobel, M. (with Hamad, G.) On the stability of the solution of a boundary value problem for a differential equation of n th order. **86i:34021**
- Teptin, A. L. A multipoint boundary value problem whose Green function changes sign in "checkerboard sign pattern". (Russian) **86f:34032**

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- Agarwal, Ravi P. (with Gupta, Ramesh C.) On the solution of Holt's problem. **86a:55068**
- On boundary value problems for $y''' = f(x, y, y', y'')$. **86b:34030**
- Akhmed, Abdo Sabet (with Yurchuk, N. I.) Multipoint boundary value problems for certain operator-differential equations. I. A priori estimates. (Russian) **86a:34097**
- Ellas, Uri Comparison theorems for dislocation and disconjugacy of differential equations. **86b:34029**
- Eloe, P. W. (with Henderson, Johnny) Families of boundary conditions for nonlinear ordinary differential equations. **86i:34024**
- Gupta, Ramesh C. See Agarwal, Ravi P., **86a:55068**
- Henderson, Johnny See Eloe, P. W., **86i:34024**
- Hong, Chong Wei A critical point theorem and applications. (Chinese) **86e:58022**
- Kiguradze, I. T. Solvability of the de la Vallée-Poussin boundary value problem. (Russian) **86k:34013**
- Shahin, M. M. On boundary value problem and variational problem in a class of discontinuous solutions. **86j:49009**
- Teptin, A. L. Nonoscillation of solutions and the sign of the Green function. (Russian) **86d:34044**
- Yurchuk, N. I. See Akhmed, Abdo Sabet, **86a:34097**
- Zhao, Wei Li Existence of solutions of boundary value problems for third-order nonlinear differential equations. (Chinese. English summary) **86a:34037**

34B15 Nonlinear boundary value problems

- Aftabizadeh, A. R. On the uniqueness of solutions of nonlinear boundary value problems. (Not in MR)
- Agarwal, Ravi P. On Urabe's application of Newton's method to nonlinear boundary value problems. **86j:34017**
- On boundary value problems for $y''' = f(x, y, y', y'')$. **86b:34030**
- (with Wilson, S. J.) On a fourth order boundary value problem. **86f:34033**
- Ahmad, Shair A resonance problem in which the nonlinearity may grow linearly. **86c:34031**
- Amanova, T. T. (with Muratbekov, M. B.) Separability of the nonlinear Sturm-Liouville equation. (Russian. Kazakh summary) **86a:34035**
- Ashordiya, M. T. A multipoint boundary value problem for a system of generalized ordinary differential equations. (Russian. English and Georgian summaries) **86d:34027**
- Barański, Feliks (with Musiałek, Jan) The boundary value problems for almost linear ordinary differential equation of order $2n$. (Polish summary) **86m:34014**
- Baxley, John V. Nonlinear second-order boundary value problems: an existence-uniqueness theorem of S. N. Bernstein. **86a:34036**
- Bernfeld, S. R. (with Palamides, P. K.) A topological method for vector-valued and n th-order nonlinear boundary value problems. **86a:34037**
- Beşpalova, S. A. Domain of existence of the solution of a boundary value problem for a fourth-order system. (Russian) **86g:34018**
- (with Klokovs, J.) A boundary value problem for a system of ordinary differential equations encountered in biochemistry. (Russian) **86i:34022**
- Bitsadze, D. G. (with Kiguradze, I. T.) Stability of the solution set of nonlinear boundary value problems. (Russian) **86k:34008**

- Bogar, Gary A. (with Jeppson, Ronald M.) Uniform approximate solutions of second order nonlinear boundary value problems. **86b:34013**
- Brishatyuk, E. V. A means of solution of quasilinear boundary value problems. (Russian) **86c:34029**
- Brykalov, S. A. Some boundary value problems for differential equations and inclusions. (Russian) **86f:34034**
- Cecchi, Mariella (with Marini, M.; Zezza, P. L.) Boundary value problems on $[a, b]$ and singular perturbations. **86d:34028**
- (with Furi, M.; Marini, M.) About the solvability of ordinary differential equations with asymptotic boundary conditions. (Italian summary) **86k:34009**
- Cepitla, J. Lower and upper functions and the solvability of a mixed boundary value problem for a system of second-order equations. (Russian) **86i:34023**
- Chlappinelli, R. On eigenvalues and bifurcation for nonlinear Sturm-Liouville operators. (Italian summary) **86b:34014**
- Das, P. C. (with Venkatesulu, M.) The alternative method for boundary value problems with ordinary differential equations. **86b:34031**
- Drábek, Pavel Remarks on nonlinear noncoercive problems with jumping nonlinearities. **86c:34030**
- Dymarski, Ya. M. Asymptotic behavior of normalized eigenfunctions of a two-point nonlinear boundary value problem. (Russian) **86g:34019**
- Normalized eigenfunctions of a two-point nonlinear boundary value problem. (Russian. English summary) **86b:34032**
- Eloe, P. W. (with Henderson, Johnny) Nonlinear boundary value problems and a priori bounds on solutions. **86g:34020**
- (with Henderson, Johnny) Families of boundary conditions for nonlinear ordinary differential equations. **86i:34024**
- Fedorova, G. I. See Sadyrbaev, F. Zh., **86i:34029**
- Furi, M. See Cecchi, Mariella et al., **86k:34009**
- Gaspindashvili, G. D. A boundary value problem for systems of nonlinear ordinary differential equations with singularities. (Russian) **86g:34021**
- Solvability of a nonlinear two-point boundary value problem. (Russian. English and Georgian summaries) **86g:34022a**
- Generalized solutions of a nonlinear two-point boundary value problem. (Russian. English and Georgian summaries) **86g:34022b**
- Gegela, G. T. On boundary value problems of periodic type for ordinary odd order differential equations. **86k:34010**
- Boundary value problems of periodic type for even-order ordinary differential equations. (Russian. English and Georgian summaries) **86j:34018**
- Gorlenko, E. I. Some existence and uniqueness theorems for the solution of a boundary value problem for a fourth-order equation. (Russian) **86g:34023**
- Grişănu, G. Construction of upper and lower functions for a singular boundary value problem. (Russian) **86g:34024**
- Hart, D. C. (with Lazer, A. C.; McKenna, P. J.) Multiple solutions of two-point boundary value problems with jumping nonlinearities. **86k:34011**
- Hastings, Stuart P. (with Poore, A. B.) Liñán's problem from combustion theory. II. **86c:34033**
- Henderson, Johnny Right (m_1, \dots, m_l) focal boundary value problems for third order differential equations. **86j:34019**
- See also Eloe, P. W., **86g:34020** and **86i:34024**
- Jackson, L. K. (with Palamides, P. K.) An existence theorem for a nonlinear two-point boundary value problem. **86b:34033**
- Jeppson, Ronald M. See Bogar, Gary A., **86b:34013**
- Kannan, Rangachary (with Lakshmikantham, V.) Periodic solutions of nonlinear boundary value problems. **86k:34012**
- (with Nieto, Juan J.; Ray, M. B.) A class of nonlinear boundary value problems without Landesman-Lazer condition. **86c:34031**
- Karrachou, Jamila Résolution de certains problèmes aux limites non linéaires. [Solution of some nonlinear boundary value problems] **86c:34032**
- Kenshebaev, K. On the question of quasilinear boundary value problems with disconnected boundary conditions. (Russian) **86c:34033**
- Kiguradze, I. T. Two-point boundary value problems for systems of nonlinear ordinary differential equations. (Russian) (See **86f:34002**)
- Conditions for solvability of the de la Vallée-Poussin boundary value problem. (Russian. English and Georgian summaries) **86c:34033**
- Solvability of the de la Vallée-Poussin boundary value problem. (Russian) **86k:34013**
- See also Bitsadze, D. G., **86k:34008**
- Klokovs, J. See Beşpalova, S. A., **86i:34022**
- Koloso, A. I. Branching of solutions of a nonlinear boundary value problem. (Russian) **86i:34025**
- Constructive solvability of nonlinear boundary value problems in a class of convex functions. (Russian) **86i:34026**
- Konek, Zdeněk Nonlinear boundary value problem for a system of nonlinear ordinary differential equations. (Russian and Czech summaries) **86i:34027**
- Koshelova, T. M. General boundary value problems for a system of first-order ordinary differential equations in a class of generalized functions. (Russian) **86c:34034**
- Kovach, Yu. I. A boundary value problem for differential equations given in implicit form. (Russian. English summary) **86c:34034**
- Kvinskadze, G. G. A singular boundary value problem for nonlinear ordinary differential equations. (Russian) (See **86f:34002**)
- Laetsch, Theodore The theory of forced, convex, autonomous, two point boundary value problems. **86j:34020**
- Lakshmikantham, V. See Kannan, Rangachary, **86k:34012**
- Langlais, Michel (with Le Roux, Marie-Noëlle) Convergence d'un schéma numérique pour un problème de valeurs elliptique non linéaire. (English summary) [Convergence of a numerical method for a nonlinear eigenvalue problem] **86f:34035**
- Lavery, John E. Solution of quasilinear two-point boundary value problems by the method of pseudolinear equations. **86c:34035**
- Lazer, A. C. See Hart, D. C. et al., **86k:34011**

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- Sachs, R. L. Another identity among squares of eigenfunctions. (Not in MR)
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- Trubowitz, Eugene See Isaacson, E. L. et al., **86f:34051** and Dahlberg, Björn E. J., **86f:34052**
- Trujillo, Juan J. (with Moreno, Juan C.) Construction of eigenfunctions for a Sturm-Liouville operator. (Spanish) **86b:34026**
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- Volkov, V. E. Boundedness of the number of orthogonal solutions of the equation $-u'' + q(x)u = \lambda u$ for large values of $-\lambda$. (Russian) **86c:34041**
- Vuillermot, Pierre-A. A class of Sturm-Liouville eigenvalue problems with polynomial and exponential nonlinearities. **86b:34047**
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secondary classifications (34B25)

- Abramov, Yu. Sh. Variational approach to the problem of the control of the spectrum of conservative dynamical systems. (Russian) **86d:49063**
- Abudov, A. A. See Bakramogly, M., **86j:47066**
- Albeverio, S. (with Gesty, F.; Haegh-Krohn, R.; Kirsch, W.) On point interactions in one dimension. **86c:81037**
- Armbruster, D. (with Dangelmayr, G.; Güttinger, W.) Imperfection sensitivity of interacting Hopf and steady-state bifurcations and their classification. **86m:58107**
- Babenko, I. K. Some remarks on zeros of the Sturm-Liouville equation with periodic potential. (Russian) **86f:34067**

- Babich, V. M. (with Smyslyayev, V. P.) On a scattering problem for the Schrödinger equation in the case of a potential that is linear both in time and in coordinate. (Russian) **86m:35127**
- Baframogly, M. (with Abudov, A. A.) Essential selfadjointness of the Sturm-Liouville operator with operator coefficients. (Russian) **86j:47066**
- Barasa, S. Restricted quantum-mechanical three-body problems. III. Asymptotic eigenvalues and wave functions of an electron in the field of a generalized dipole. **86h:81137**
- Barnes, David C. Extremal problems for eigenvalues with applications to buckling, vibration and sloshing. **86f:49109**
- Bava, G. P. (with Ghione, G.) Inverse scattering for optical couplers. Exact solution of Marchenko equations. **86a:78013a**
(with Ghione, G.) Erratum: "Inverse scattering for optical couplers. Exact solution of Marchenko equations". **86a:78013b**
- Beresanaki, Yu. M. The integration of semi-infinite Toda chain by means of inverse spectral problem. **86h:58069**
- Boshinov, Nikolai S. On a class of (L^1 , L^1) Sturm-Liouville multipliers, commutants and convolutions. **86a:44008**
- Brown, Richard C. A von Neumann factorization of some selfadjoint extensions of positive symmetric differential operators and its application to inequalities. **86a:47047**
The Dirichlet index under minimal conditions. **86c:34037**
- Bunaleva, M. V. The one-dimensional Schrödinger operator with accelerating potential. (Russian) **86f:81026**
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- Cheney, Margaret A rigorous derivation of the "miracle" identity of three-dimensional inverse scattering. **86m:35040**
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- Clausing, Achim Pólya operators. I. Total positivity. **86f:47028a**
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- Evans, W. D. Regularly solvable extensions of nonselfadjoint ordinary differential operators. **86b:47086**
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- Freiling, Gerhard Zur Vollständigkeit des Systems der Eigenfunktionen und Hauptfunktionen irregulärer Operatorbüschel. [On the completeness of the system of eigenfunctions and principal functions of nonregular operator pencils] **86f:47029**
- Gasyimov, M. G. Spectral analysis of a class of nonselfadjoint ordinary differential operators with periodic coefficients. (Russian) **86m:47070**
Uniqueness of the solution of the inverse problem of scattering theory for even-order ordinary differential equations on the whole axis. (Russian) **86f:34025**
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- Ghione, G. See Bava, G. P., **86a:78013a** and **86a:78013b**
- Giachetti, R. (with Johnson, Russell Allen) Spectral theory of second-order almost periodic differential operators and its relation to classes of nonlinear evolution equations. (Italian and Russian summaries) **86j:58127**
- Grinevich, P. G. Commuting matrix differential operators of arbitrary rank. (Russian) **86i:47068**
- Gubreev, G. M. A theorem on uniform well-posedness of the Cauchy problem, and its applications. (Russian) **86d:47061**
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- Kaper, Hans G. (with Kwong, Man Kam; Lekkerkerker, C. G.; Zettl, A.) Full- and partial-range eigenfunction expansions for Sturm-Liouville problems with indefinite weights. **86j:47067**
- Karnarski, Bertel Generalized Dirac-operators with several singularities. **86m:47030**
- Kauffman, Robert M. On the limit- n classification of powers of positive coefficient ordinary differential expressions. **86c:34038**
- Kesel'man, G. M. Boundary value problems with nonclassical boundary conditions. (Russian) **86m:47031**
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- Khodykin, V. I. The spectrum of a nonselfadjoint Dirac system. (Russian) **86m:47071**
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- Komornik, Vilmos Sur l'équiconvergence des séries orthogonales et biorthogonales correspondant aux fonctions propres des opérateurs différentiels linéaires. (English summary) [On the equiconvergence of orthonormal and biorthonormal series corresponding to the eigenfunctions of linear differential operators] **86a:42034**
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- Markett, C. Norm estimates for generalized translation operators associated with a singular differential operator. **86g:47062**
- Mennicken, Reinhard (with Möller, Manfred) A generalization of a theorem of Keldys. **86c:47015**
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- Mesón, Alejandro M. (with Fernández, Francisco M.; Castro, Eduardo A.; Malta, Alberto; Rodríguez, Rodolfo) Shift of the coordinate origin in calculating resonances by dilatation transformation. **86g:81145**
- Mirsoev, K. A. A criterion for quasiregularity of an operator generated by a quasidifferential expression. (Russian) **86m:47072**
- Mitra, A. K. An eigenvalue problem arising in a patch formation model. **86d:65106**
- Misutani, Akira On the constructive study of the well-posedness of the inverse Sturm-Liouville problem. **86k:65065**
- Molchanov, I. N. (with Demjantschuk, Anatolij P.) Die numerische Bestimmung eines Operators 2. Ordnung aus dem Spektrum. [The numerical determination of an operator of second order from its spectrum] **86j:65102**
- Möller, Manfred See Mennicken, Reinhard, **86c:47015**
- Nikishin, E. M. The discrete Sturm-Liouville operator and some problems of function theory. (Russian. English summary) **86h:39007**
- Popov, I. Yu. Resonance states for the Schrödinger equation with potentials of zero radius. (Russian. English summary) **86j:35044**
- Race, David A simplified characterization of the boundary conditions which determine J -selfadjoint extensions of J -symmetric (differential) operators. **86k:47037**
- Read, Thomas T. On the spectral theory of some nonsymmetric second-order differential operators. **86b:47087**
- Robert, D. Nonlinear eigenvalue problems with a small parameter. **86b:47088**
- Rodríguez, Rodolfo See Mesón, Alejandro M. et al., **86g:81145**
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- Rose, James H. (with Cheney, Margaret; DeFacio, Brian) The connection between time- and frequency-domain three-dimensional inverse scattering methods. **86d:35038**
- Shaw, J. K. See Hinton, Don, **86h:34015**
- Simon, Barry m -functions and the absolutely continuous spectrum of one-dimensional almost periodic Schrödinger operators. (See **86f:00016**)
Almost periodic Schrödinger operators. IV. The Maryland model. **86m:81038**
- Smyslyayev, V. P. See Babich, V. M., **86m:35127**
- Stafney, James D. Spectral decomposition for nonselfadjoint singular differential operators. **86b:47089**
- Stickler, D. C. Application of the trace method for inverse scattering to a medium which supports N types of waves. **86b:78050**
- Sultanaev, Ya. T. Deficiency indices and the spectrum of the nonseparable Sturm-Liouville operator. (Russian) **86a:47050**
- Susuki, Takashi Gel'fand-Levitan's theory, deformation formulas and inverse problems. **86k:35157**
- Volkov, V. E. Spectral expansions in eigenfunctions of an unbounded selfadjoint extension of the Sturm-Liouville operator with potential from the class L_2^{loc} . (Russian) **86g:47063**
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- Zettl, A. See Kaper, Hans G. et al., **86j:47067**

34B27 Green functions

- Godunov, S. K. (with Gordienko, V. M.) The Green matrix of a boundary value problem for ordinary differential equations. (Russian) **86c:34042**
- Gordienko, V. M. See Godunov, S. K., **86c:34042**
- Kurbanahoev, S. Z. Some analytic properties of one-sided nonlinear projectors. (Russian. Tajiki summary) **86b:34048**
- Teptin, A. L. Nonoscillation of solutions and the sign of the Green function. (Russian) **86d:34044**
The sign of the Green function of a boundary value problem. (Russian) **86a:34051**
- Tippenhauer, Ulrich Generalized boundary value problems for ordinary differential operators and least squares solutions. **86k:34026**
- Trofimchuk, S. I. Green functions of a nonhyperbolic linear extension of a compact dynamical system. (Russian) **86c:34043**
secondary classifications (34B27)
- Barański, Feliks (with Musiałek, Jan) The boundary value problems for almost linear ordinary differential equation of order $2n$. (Polish summary) **86m:34014**
- Houard, J.-C. (with Irac-Astaud, M.) Algebraic structure of the Green functions of nonlinear differential equations. (See **86g:00009**)
- Irac-Astaud, M. See Houard, J.-C., (**86g:00009**)
- Musiałek, Jan See Barański, Feliks, **86m:34014**

34B30 Special equations (Mathieu, Hill, Bessel, etc.) [See also 33-XX.]

- Buya, Mutlars. (with Finkel, Allan) The inverse periodic problem for Hill's equation with a finite-gap potential. **86a:34052**
- Cañada, A. (with Martínez-Amores, P.) Bifurcation in the Mathieu equation with three independent parameters. (Spanish. English summary) (See **86h:00009a**)
- Ėskin, L. D. Reconstruction of the Hill equation from impedance. (Russian) **86f:34060**
- Farkas, Miklós Duffing's equation under bounded perturbation. (Russian) (See **86f:34002**)
- Finkel, Allan. See Buya, Mutlars, **86a:34052**
- Firsova, N. E. Resonances of the perturbed Hill operator with exponentially decreasing extrinsic potential. (Russian) **86m:34022**
- Grigis, A. Sur l'équation de Hill analytique. [The analytic Hill equation] (See **86j:00010**)
- Hochstadt, Harry A generalization of Borg's inverse theorem for Hill's equations. **86b:34049**
- Kashkinbaev, O. (with Tereshchenko, M. I.) Normally regular solutions of the Mathieu equation. (Russian. Kazakh summary) **86k:34027**
- Keller, Joseph B. See Weinstein, Michael I., **86d:34045**
- Khryashchev, S. V. Asymptotics of the discrete spectrum of a perturbed Hill operator. (Russian. English summary) (See **86i:35001**)
- Marinescu, Elvira Sur quelques équations intégrables élémentaires. (Romanian summary) [Some elementary integrable equations] **86b:34050**
- Martínez-Amores, P. See Cañada, A., (**86h:00009a**)
- Mollova, K. G. Construction of periodic solutions of Mathieu's equation with damping and retarded argument. (Bulgarian. English and Russian summaries) **86c:34056**
- Finding the characteristic exponents of Mathieu's equation with damping, with and without retarded argument. (Bulgarian. English and Russian summaries) **86c:34057**
- Pedersen, Paul On stability diagrams for damped Hill equations. **86c:34058**
- Tereshchenko, M. I. See Kashkinbaev, O., **86k:34027**
- Weinstein, Michael I. (with Keller, Joseph B.) Hill's equation with a large potential. **86d:34045**

secondary classifications (34B30)

- Abdullaev, A. S. Asymptotic behavior of the solutions of the generalized sine-Gordon equation, the third Painlevé equation and the d'Alembert equation. (Russian) **86i:35127**
- Erbe, L. H. Stability results for periodic second order linear differential equations. **86f:34058**
- Kawakami, Hiroshi The bifurcation pattern of periodic solutions observed in Duffing's equation. (Russian summary) (See **86f:34003**)
- Lange, Charles G. See Miura, Robert M., **86m:34067**
- Leach, P. G. L. First integrals for the modified Emden equation $\ddot{q} + \alpha(t)\dot{q} + q^n = 0$. **86k:34001**
- Magnus, Alphonse Riccati acceleration of Jacobi continued fractions and Laguerre-Hahn orthogonal polynomials. **86b:65006**
- Miura, Robert M. (with Lange, Charles G.) Particular solutions of forced generalized Airy equations. **86m:34067**
- Mollova, K. G. Periodic solution of Mathieu's equation with a small delay in the argument. (Bulgarian. English and Russian summaries) **86c:34114**
- Estimate of the domain of convergence of periodic solutions of Mathieu's equation with a delay in the argument. (Bulgarian. English and Russian summaries) **86c:34115**
- Stone, James See Thiele, Everett, **86c:34023**
- Thiele, Everett (with Stone, James) The driven Floquet oscillator. **86c:34023**

34B99 None of the above, but in this section

secondary classifications (34B99)

- Kosel, U. Biegelinie eines elastischen Ringes als Beispiel einer Verzweigungslösung. [Bending line of an elastic ring as an example of a bifurcation solution] **86b:73018**
- Littlejohn, Lance L. On the classification of differential equations having orthogonal polynomial solutions. **86c:33018**
- Newton, Roger G. The Marchenko and Gel'fand-Levitan methods in the inverse scattering problem in one and three dimensions. **86j:35141**
- Race, David The theory of J -selfadjoint extensions of J -symmetric operators. **86i:47031**

34Cxx Qualitative theory

- Turincel, Mihal An asymptotic dosing problem for a system of ordinary differential equations. (Not in MR)

secondary classifications (34Cxx)

- Artigue, Michèle (with Gautheron, Véronique) ★ Systèmes différentiels. (French) [Differential systems] **86i:58001**
- Gautheron, Véronique See Artigue, Michèle, **86i:58001**

34C05 Location of integral curves, singular points, limit cycles

- Amatova, G. M. Singular points of systems with shocks. (Russian) **86k:34028**
- Andersen, Carl M. See Dadfar, Mohammad B. et al., **86b:34053**
- Aranda Iriarte, José I. Simple methods for studying degenerate singular points. (Spanish) (See **86g:00009**)
- Artykov, A. R. (with Rabinov, G. A.; Rozet, I. G.) Moving and fixed singularities of solutions of certain nonautonomous systems. (Russian) **86d:34046**
- (with Rabinov, G. A.; Rozet, I. G.) Moving singularities of solutions of differential systems with a cylindrical phase surface. (Russian) **86b:34051**
- Atamanov, P. S. Absence of limit cycles in certain classes of differential equations. (Russian) **86i:34042**
- Baltag, V. A. Qualitative investigation of a system with homogeneous cubic nonlinearities and an integral of Darboux type. (Russian) **86m:34023a**

- Qualitative investigation of a differential system with cubic right-hand sides and an integral of Darboux type. (Russian) **86m:34023b**
- Basov, V. V. (with Skitovich, A. V.) A complex cycle twice passing through a simple saddle. (Russian) **86b:34052**
- Bastin, H. (with Delchambre, M.) Response curves of the third order van der Pol equation with delay: numerical results. (Russian summary) (See **86f:34003**)
- Berezina, N. S. Classes of third-order systems without moving critical points. (Russian) **86f:34061**
- Blows, T. R. (with Lloyd, N. G.) The number of limit cycles of certain polynomial differential equations. **86g:34030**
- Chen, Lan Sun See Wang, Dong Da (Not in MR)
- Chen, Shu Ping Limit cycles of a quadratic system with a parabola as a particular integral. (Chinese) (Not in MR)
- Cherenkova, L. P. See Pyshkova, N. V. (Not in MR)
- Chernyshev, V. E. Generation of a closed trajectory from eight trajectories which are doubly asymptotic to a saddle type equilibrium state. (Russian) (See **86f:34003**)
- Curtis, Paul Varia sur les systèmes quadratiques. (English summary) [Varia on quadratic systems] **86g:34031**
- Dadfar, Mohammad B. (with Geer, James; Andersen, Carl M.) Perturbation analysis of the limit cycle of the free van der Pol equation. **86b:34053**
- Delchambre, M. See Bastin, H., (**86f:34003**)
- Ding, Da Zheng The existence of limit cycles of the Liénard equation. (Chinese. English summary) **86d:34047**
- Dolov, M. V. (with Kosarev, V. V.) First integrals of periodic systems. (Russian) **86g:34032**
- (with Kosarev, V. V.) Darboux integrals and generation of limit cycles from a multiple focus. (Russian) **86a:34053a**
- (with Lisin, B. V.; Kosarev, V. V.) Darboux integrals and bifurcations of singular cycles. (Russian) **86a:34053b**
- (with Kosarev, V. V.) Darboux integrals and limit cycles. (Russian) (See **86f:34003**)
- (Dulac, H.) See Ye, Shu Wu, **86m:34026**
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- Morosanu, P. L. Reversibility of motions in a discontinuous abstract dynamic system with aftereffect. (Russian) **86c:58062**
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- Pacifico, M. J. See Bamón, R. et al., **86k:58069**
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- Saari, Donald G. The manifold structure for collision and for hyperbolic-parabolic orbits in the n -body problem. **86c:58050**
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- Thiele, Everett (with Goodman, Myron F.; Stone, James) Floquet theory analysis of stable and unstable motion. **86f:58088**
- Tian, Jing Huang (with Tan, Rong Gang) ★ An index theorem and its applications. **86j:58135**
- Tleubergenov, M. I. Necessary and sufficient conditions for stability of integral manifolds. (Russian) (See **86c:34003**)
- Tonkov, E. L. A dynamic system of shifts and problems on uniform controllability of an almost periodic system. (Russian) (See **86f:34003**)
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34C40 Equations and systems on manifolds [See mainly 58Fxx, 58Gxx.]

- Erakhtina, G. M. Linear integrals of a class of differential equations on a torus. (Russian) **86b:34080**
- Yu, Shu Xiang On dynamical systems with an integral invariant on the torus. **86h:34054**

secondary classifications (34C40)

- Anapol'skii, L. Yu. Periodic integral manifolds of relay inclusions. (Russian) **86b:49019**
- Schecter, Stephen (with Singer, Michael F.) A class of vectorfields on S^2 that are topologically equivalent to polynomial vectorfields. **86i:58080**
- Singer, Michael F. See Schecter, Stephen, **86i:58080**
- Yafarov, Sh. A. First fractional integrals of equations of geodesic lines of spaces with affine connection. (Russian) **86g:53019**

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- Anapol'skii, L. Yu. Periodic integral manifolds of relay systems with hysteresis. (Russian) (See **86f:34003**)
- Bakal, A. S. The method of integral manifolds in the theory of slowly evolving systems. (Russian) (See **86f:34002**)
- Baria, Ya. S. Quasilinear integral manifolds. (Russian) (See **86f:34002**)

- Belopol'skaya, Ya. I. Stable integral manifolds of stochastic equations. (Russian) (See **86f:34002**)

- Fodchuk, V. I. Integral manifolds and bounded solutions of functional-differential equations in the critical case. (Russian) (See **86f:34002**)
- Likova, O. B. Bounded integral manifolds of systems of nonlinear differential equations. (Russian) (See **86f:34002**)
- Sobolev, V. A. See Strygin, V. V., **86g:34062**
- Strygin, V. V. (with Sobolev, V. A.) ★ Интегральные многообразия и разделение движений. (Russian) [Integral manifolds and separation of motions] **86g:34062**

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- Bigun, Ya. I. (with Bortel, M. S.; Cherevko, I. M.) Investigation of some classes of systems with delay by the method of integral manifolds and the averaging method. (Russian) (See **86f:34003**)
- Bortel, M. S. See Bigun, Ya. I. et al., **(86f:34003)**
- Cartianu, Dan Synchronization phenomena of periodically stimulated dissipative systems in bifurcation theory and in the alternative theory of averaging. (Romanian. English summary) **86g:58100**
- Cherevko, I. M. See Bigun, Ya. I. et al., **(86f:34003)**
- Chua, L. O. See Odynelec, Michel, **86m:34001**
- Costal, F. (with Rodriguez, J. A.) A bifurcation problem to homoclinic orbits for nonautonomous systems. **86d:58062**
- Flockers, Dietrich Resonance and bifurcation of higher-dimensional tori. **86m:58111**
- Khudalberdiev, R. Application of the theory of integral manifolds to problems of the development of large-scale systems. (Russian) (See **86f:34002**)
- Moauvo, V. (with Negrini, Piero) Hopf bifurcation in \mathbb{R}^n : stability properties of the bifurcating orbits. (Italian summary) **86c:58112**
- Negrini, Piero See Moauvo, V., **86c:58112**
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- Rodriguez, J. A. See Costal, F., **86d:58062**

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- Denisov, M. Yu. Reduction of certain nonlinear evolution equations with a continuous spectrum to linear form. (Russian) **86g:45020**

34C99 None of the above, but in this section

- Bularas, Driss Affine invariants of a second-order quadratic differential system. (Russian) **86b:34061**
- Chebanu, V. M. Comitants of a differential system with cubic nonlinearities. (Russian) **86b:34062**

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- Augusteijn, Marijke F. (with Breitenberger, Ernst) Bifurcations in the slow-fluctuation technique. **86f:70022**
- Breitenberger, Ernst See Augusteijn, Marijke F., **86f:70022**
- Caprino, S. (with Maffei, Carlotta; Negrini, Piero) Hopf bifurcation at 1:1 resonance. **86c:58061**
- Chen, Yi Yuan Qualitative theory of differential equations on the projective plane. II. (Chinese) **86b:34021**
- Cheshankov, B. (with Slavkova, M.) Asymptotic solutions of dynamic systems with a multivalued order of resonance. (Bulgarian. English and Russian summaries) **86c:34101**
- Maffei, Carlotta See Caprino, S. et al., **86c:58061**
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- Ōtsuki, Nobukazu Erratum: "Spectral theory of vector bundle homeomorphisms" [TRU Math. 18 (1982), no. 1, 47-56; MR 84c:58066]. **86a:58079**
- Saperstone, Stephen H. The topological dynamics of perturbed differential equations. **86a:34084**
- Slavkova, M. See Cheshankov, B., **86c:34101**
- Tchisawa, Kiyoyuki An analysis of nonlinear systems with respect to jump. **86c:94031**
- Volodina, I. N. Exact value of widths of a certain class of solutions of linear differential equations. (Russian summary) **86m:41030**

34Dxx Stability theory [See also 58F10, 93Dxx.]

- Isobov, N. A. Functions defined by higher-order central exponents. (Russian) (Not in MR)

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- Agafonov, S. A. Stability of Schuler pendulum upon motion of the suspension point along a parallel at constant velocity. **86d:34075**
- Akhmetov, M. U. (with Perestyuk, N. A.) Necessary and sufficient conditions for stability of characteristic exponents of a linear system of differential equations with impulse action. (Russian. English summary) **86c:34078**
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- Bagrova, A. I. Asymptotic behavior of solutions of an ordinary differential equation in \mathbb{R}^n . (Russian. English summary) (See **86g:34001**)
- Barabanov, E. A. The highest σ -exponent of linear differential equations. (Russian) **86k:34044**
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- Eisenfeld, Jerome On convergence to steady state. **86g:34063**
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- Golokovskii, P. Asymptotic estimates of the norm of an integral matrix of a two-dimensional system of differential equations in the neighborhood of a singular point of the system. (Russian) **86g:34064**
- Goloveshko, V. I. Asymptotic behavior of solutions of the Cauchy problem for linear differential equations. (Ukrainian. Russian summary) **86k:34045**
- Gonzales, E. Generic properties of Lyapunov exponents of equations of arbitrary order. (Russian) **86c:34090**
- Graef, John R. (with Spikes, Paul W.; Grammatikopoulos, Myron K.) On the asymptotic behavior of the positive solutions of a differential equation with a discontinuous nonlinear term. (See **86f:00016**)
- Grammatikopoulos, Myron K. See Graef, John R. et al., (**86f:00016**)
- Hinton, Don Asymptotic behavior of solutions of disconjugate differential equations. (See **86f:00016**)
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- Kalas, Josef On certain asymptotic properties of the solutions of the equation $\dot{z} = f(t, z)$ with a complex-valued function f . **86f:34089**
- Kompel', V. G. See Prokhorova, R. A., **86c:34079**
- Kulik, A. N. (with Kulik, V. L.) Lyapunov's function and dichotomy on semiaxes of linear systems of differential equations. (Russian) **86b:34083**
- Kulik, V. L. See Kulik, A. N., **86b:34083**
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- Mal'kov, K. V. An algorithm for estimating the exponential spectrum of linear systems of differential and integro-differential equations. (Russian) **86d:34078**
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- Mikolajski, Z. Sur un "lemme fondamental" de N. Rouche, P. Habets et M. Laloy. [On a fundamental lemma of N. Rouche, P. Habets and M. Laloy] **86b:34084**
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- Surkov, A. G. Sharp bounds for characteristic indices of second-order linear systems with bounded perturbations. (Russian) **86a:34077**
- Švec, Marko Behaviour of solutions of a fourth-order selfadjoint linear differential equation. **86a:34078**
- Tsvetkova, G. M. (with Shakhtarin, B. I.) Limit characteristics of an n th order nonlinear phase automatic system. (Russian) (See **86f:93006**)
- Voikresenskii, E. V. Asymptotic behavior of solutions and homeomorphism of initial conditions of differential equations. (Russian) **86i:34064**
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- Wilstuts, Volker Analytic expansion of Lyapunov exponents associated to the Schrödinger operator. (See **86f:81003**)
- Yarov, V. M. (with Alekseev, B. V.) Determination of the stationary mode of systems with periodically varying parameters. (Russian) **86i:34065**
- Yatsenko, S. A. (with Prosenyuk, L. G.) The power asymptotic behavior of solutions of a system of differential equations not solved with respect to a derivative. (Russian) **86j:34046**
- Yavorakii, M. T. Asymptotic behavior of the matrizant and analytic scattering matrices for a canonical system of differential equations on the semiaxis. (Russian) **86h:34057**
- Yoshizawa, Taro Asymptotic properties in nonautonomous systems. (Russian summary) (See **86f:34003**)
- Zhou, Zhi Ming Stability for generalized Volterra systems. (Chinese. English summary) **86c:34091**
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- Ashbaugh, Mark (with Sundberg, Carl) Stability of quantum mechanical shape resonances via Riccati's equation. **86i:81038**
- Chernikova, O. S. See Perestyuk, N. A., **86b:34087**
- Chu, Moody T. Asymptotic analysis of Toda lattice on diagonalizable matrices. **86h:70029**
- Daido, Hiroaki Cliff: sudden enhancement or enfeeblement of chaos in dissipative dynamical systems. **86f:58103**
- Dannan, Fosi M. Integral inequalities of Gronwall-Bellman-Bihari type and asymptotic behavior of certain second order nonlinear differential equations. **86k:26018**
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- Graffi, S. (with Grecchi, V.; Jona-Lasinio, G.) Tunneling instability via perturbation theory. **86e:81038**
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- Anashkin, O. V. On the problem of stability of solutions of systems of differential equations. (Russian) (See 86f:34003)
- Andreev, Aleksandr Sergeevich On the asymptotic stability and instability of the zeroth solution of a nonautonomous system. 86j:34048
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- Athanassov, Zhivko S. On the stability of solutions of a system of differential equations. (Italian summary) 86i:34066
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- Bolgrabekaya, I. A. (with Ignat'ev, A. O.; Kononykhin, G. A.; Savchenko, A. Ya.) Investigation of the stability of steady motions of rigid bodies under the action of imbalances of a varying physical nature. (Russian) (See 86j:34001)
- Bol'shakov, N. E. (with Potapenko, P. P.) A criterion for asymptotic stability of Pfaffian differential systems with g -perturbations. (Russian) 86c:34068
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- Górecki, H. (with Popek, L.) Control of the systems with time delay. (See **86g:93002**)
- Hocken, R. D. (with Marshall, J. E.; Salehi, S. V.) Time-delay control: mismatch problems. (See **86g:93002**)
- Huang, Ch'i (with Shih, Yen P'ing) Optimal control of delay systems via block pulse functions. **86d:49004**
- Ichikawa, K. Frequency-domain pole assignment and exact model-matching for delay systems. **86e:93056**
- Ignatenko, V. N. (with Saenko, T. A.; Strakhova, N. V.) Predicted optimally fuel efficient control of second-order systems with delay. (Russian) **86e:49009**
- Ito, Kazufumi (with Tarn, T. J.) A linear quadratic optimal control for neutral systems. **86i:49004**
- See also Banks, H. T. et al., **86b:49052**
- Koivo, H. N. (with Pohjolainen, S. A.) Tuning of multivariable PI-controllers for unknown systems with input delay. **86c:93046**

- Kokame, Hideki See Mori, Takehiro, **86m:93068**
- Krasov, Ewa Information domains in linear differential game with delay and noisy information. **86g:90144**
- Kryashimskii, A. V. (with Maksimov, V. I.; Osipov, Yu. S.) On positional simulation in dynamic systems. **86m:93033**
- Leifura, V. N. See Men'ko, Ya. P., (**86f:34003**)
- Liu, Yong Qing On the equivalence problem of control systems and control systems with time-lags in the theory of stabilization. (Chinese summary) **86k:93105**
- Lubochkin, A. V. On complete controllability with respect to state of linear steady-state systems with lag. (Russian) **86h:93011**
- Maksimov, V. I. See Kryashimskii, A. V. et al., **86m:93033**
- Maksimov, K. B. Multipoint necessary conditions for optimality of controls that are singular in the classical sense in systems with delay. (Russian) **86f:49064**
- Marchenko, Vladimir Matveevich (with Asmykovich, I. K.) On the qualitative control theory in dynamic systems with distributed delay. (See **86g:93002**)
- Marshall, J. E. See Hocken, R. D. et al., (**86g:93002**)
- Martynyuk, D. I. (with Yurchik, A. I.) The problem of control for differential equations with retarded argument. (Russian) (See **86g:00005**)
- Men'ko, Ya. P. (with Leifura, V. N.) Asymptotic solution of the problem of optimal control of systems of linear differential equations with retarded argument. (Russian) (See **86f:34003**)
- Minyuk, S. A. Observability of linear time-independent systems with delay. (Russian) **86b:93013**
- Mohanty, A. K. See Chhotaray, R. K., **86a:93087**
- Mori, Takehiro (with Kokame, Hideki) Feedback stabilization for linear time-delay systems. (Japanese. English summary) **86m:93068**
- Osipov, Yu. S. See Kryashimskii, A. V. et al., **86m:93033**
- Ouchi, Takao See Watanabe, Keiji, **86a:93019**
- Pesheva, Yu. Kh. A problem of time optimality in systems of differential equations with retarded argument. (Russian) **86f:49065**
- Pimenov, V. G. (with Stikhina, T. K.) An iteration procedure for the construction of stable sets in systems with aftereffect in the control. (Russian) **86g:90146**
- Pohjolainen, S. A. See Koivo, H. N., **86c:93046**
- Popek, L. See Górecki, H., (**86g:93002**)
- Przytycki, K. Maciej (with Sosnowski, A.) Remarks on strong observability and detectability of linear time delay systems with disturbances. **86b:93014**
- Rosen, I. G. See Banks, H. T. et al., **86b:49052**
- Ruan, Jiong Absolute stability of a neutral functional-differential of Lurie type. (Chinese. English summary) **86a:93085**
- Saenko, T. A. See Ignatenko, V. N. et al., **86e:49009**
- Salamon, D. Dynamic observation and feedback stabilization for retarded systems with delays in input and output. (See **86g:93002**)
- Salehi, S. V. See Hocken, R. D. et al., (**86g:93002**)
- Shih, Yen P'ing See Huang, Ch'i, **86d:49004**
- Solodovnikov, V. V. (with Filimonov, A. B.) Control of the state of linear stationary objects with lags. **86j:93008**
- Sosnowski, A. See Przytycki, K. Maciej, **86b:93014**
- Spong, Mark W. A theorem on neutral delay systems. **86m:93071**
- Stikhina, T. K. See Pimenov, V. G., **86g:90146**
- Strakhova, N. V. See Ignatenko, V. N. et al., **86e:49009**
- Tadmor, Gilead Optimal controls and their discontinuities in quadratic problems of delay systems. **86f:49014**
- Tadumadse, T. A. Existence of a solution in optimal problems described by nonlinear functional-differential equations. (Russian) **86i:49007**
- Tarn, T. J. See Ito, Kazufumi, **86i:49004**
- Teo, K. L. (with Wong, K. H.; Clements, D. J.) Optimal control computation for linear time-lag systems with linear terminal constraints. **86b:49053**
- Trykunov, A. M. ★Адаптивное управление объектами с последействием. (Russian) [Adaptive control of objects with aftereffect] **86j:93020**
- Vinter, R. B. Control of linear hereditary systems with control and output delays. **86a:93014**
- Watanabe, Keiji (with Ouchi, Takao) An observer of systems with delays in state variables. **86a:93019**
- Wong, K. H. See Teo, K. L. et al., **86b:49053**
- Yurchik, A. I. A periodic problem of the control of nonlinear systems with delay. (Russian) **86e:93016**
- See also Martynyuk, D. I., (**86g:00005**)
- Zatorkin, R. A. Two-sided method of investigation of boundary value problems with control in the initial function for nonlinear differential equations with retarded argument. (Russian) **86b:34133**

34K99 None of the above, but in this section

- Przytycki, K. Maciej (with Sosnowski, A.) Remarks on observability and detectability of linear hereditary systems with disturbances. (See **86f:00017**)
- Sosnowski, A. See Przytycki, K. Maciej, (**86f:00017**)

secondary classifications (34K99)

- Al-Mutib, A. N. One-step implicit methods for solving delay differential equations. **86a:65118**
- Arino, Ovide See Kimmel, Marek, **86i:92039**
- Guan, Shi Rong (with Su, De Fu) One-step methods for a system of differential equation of neutral type. (Chinese. English summary) **86e:85096**
- Gul'ka, S. S. A sufficient condition for the existence of periodic solutions of nonlinear systems of integro-differential equations with impulse action. (Russian) **86f:65208**
- Haddad, Georges Functional viability theorems for differential inclusions with memory. **86f:34027**
- Jackiewicz, Zdzisław One-step methods of any order for neutral functional differential equations. **86d:65109**

- Kimmel, Marek (with Arino, Ovide) Complex proliferative systems. Formal description and qualitative analysis. (Russian summary) 86i:92039
- Kurbatov, V. G. Local Fredholm property of a difference operator (Russian). 86c:47052
- Roth, Mitchell G. See Watanabe, Daniel S., 86c:65103
- Su, De Fu Multistep methods for functional-differential equations of neutral type. (Chinese. English summary) 86c:65167
- See also Guan, Shi Rong, 86c:65096
- Watanabe, Daniel S. (with Roth, Mitchell G.) The stability of difference formulas for delay differential equations. 86c:65103

35-XX PARTIAL DIFFERENTIAL EQUATIONS

secondary classifications (35-XX)

- (Kufner, Alois) See Rektorys, Karel, 86h:49001
- Rektorys, Karel ★ Variationsmethoden in Mathematik, Physik und Technik. (German) [Variational methods in mathematics, physics and technology] 86h:49001

35-00 Handbooks, dictionaries, and other reference works

- Coulson, Charles Alfred (with Jeffrey, Alan) ★ Fale: modele matematyczne. (Polish) [Waves: mathematical models] 86a:35001
- Jeffrey, Alan See Coulson, Charles Alfred, 86a:35001
- (Uhrynowski, Zygmunt) See Coulson, Charles Alfred, 86a:35001

secondary classifications (35-00)

- Gupta, Manojit See Sen, G. K. et al., (86i:35132)
- Pal, R. K. See Sen, G. K. et al., (86i:35132)
- Sen, G. K. (with Pal, R. K.; Gupta, Manojit; Sinha, D. K.) Annotated bibliography. (See 86i:35132)
- Sinha, D. K. See Sen, G. K. et al., (86i:35132)

35-01 Elementary exposition; textbooks

- Egorov, Yu. V. ★ Лекции по уравнениям с частными производными. (Russian) [Lectures on partial differential equations] 86j:35001
- (Ibragimov, N. Kh.) See Leray, Jean, 86m:35001
- Leray, Jean ★ Гиперболические дифференциальные уравнения. (Russian) [Hyperbolic differential equations] 86m:35001
- Pinsky, Mark A. ★ Introduction to partial differential equations with applications. 86b:35001

secondary classifications (35-01)

- Arsenin, V. Ya. ★ Методы математической физики и специальные функции. (Russian) [Methods of mathematical physics, and special functions] 86c:00001
- Crapper, G. D. ★ Introduction to water waves. 86a:76009
- Gilbarg, David (with Trudinger, Neil S.) ★ Elliptic partial differential equations of second order. 86c:35035
- (Oleinik, O. A.) See Shilov, G. E., 86j:46003
- (Palamodov, V. P.) See Shilov, G. E., 86j:46003
- (Pansyakh, B. P.) See Shilov, G. E., 86j:46003
- Panton, Ronald L. ★ Incompressible flow. 86i:76001
- Protter, M. H. (with Weinberger, Hans F.) ★ Maximum principles in differential equations. 86f:35034
- Shilov, G. E. ★ Математический анализ. (Russian) [Mathematical analysis] 86j:46003
- Triebel, Hans ★ Analysis und mathematische Physik. (German) [Analysis and mathematical physics] 86j:00005
- Trudinger, Neil S. See Gilbarg, David, 86c:35035
- Vladimirov, V. S. ★ Equations of mathematical physics. 86f:00030
- Weinberger, Hans F. See Protter, M. H., 86f:35034
- Weinstein, Alan D. Equations of plasma physics. 86c:76061
- (Yankovskii, E.) See Vladimirov, V. S., 86f:00030

35-02 Advanced exposition (research surveys, monographs, etc.)

- Egorov, Yu. V. ★ Линейные дифференциальные уравнения главного типа. (Russian) [Linear differential equations of principal type] 86f:35001
- Roşculeţ, M. N. ★ Ecuaţii diferenţiale şi aplicaţii. (Romanian) [Differential equations and applications] 86m:35002

secondary classifications (35-02)

- (Aomoto, Kazuhiko) See Open problems in structure theory of nonlinear integrable differential and difference systems, 86j:58001
- (Browder, Felix E.) See Cannon, John Rosier, 86b:35073
- Cannon, John Rosier ★ The one-dimensional heat equation. 86b:35073
- Demidenko, G. V. See Uspenskii, S. V. et al., 86i:46038
- Grievard, P. ★ Elliptic problems in nonsmooth domains. 86m:35044
- Krasnoschekov, P. S. (with Petrov, A. A.) ★ Принципы построения моделей. (Russian) [Principles of model construction] 86a:00020
- (Lanckau, E.) See Complex analysis, 86h:30001a and 86h:30001b
- Landa, P. S. ★ Автоколебания в распределенных системах. (Russian) [Self-oscillations in distributed systems] 86a:00016
- Naumann, Joachim ★ Einführung in die Theorie parabolischer Variationsungleichungen. (German) [Introduction to the theory of parabolic variational inequalities] 86e:35080
- Perepelkin, V. G. See Uspenskii, S. V. et al., 86i:46038
- Petrov, A. A. See Krasnoschekov, P. S., 86a:00020

Simon, Barry Schrödinger semigroups. 86b:81001a

Erratum: "Schrödinger semigroups". 86b:81001b

(Tsujihiita, Toru) See Open problems in structure theory of nonlinear integrable differential and difference systems, 86j:58001

(Tutschke, Wolfgang) See Complex analysis, 86h:30001a and 86h:30001b

Uspenskii, S. V. (with Demidenko, G. V.; Perepelkin, V. G.) ★ Теоремы вложения и приложения к дифференциальным уравнениям. (Russian) [Embedding theorems and applications to differential equations] 86i:46038

Complex analysis ★ Complex analysis. 86h:30001a

Conference:

Structure theory of nonlinear integrable differential and difference systems ★ Open problems in structure theory of nonlinear integrable differential and difference systems. 86j:58001

Katata ★ Open problems in structure theory of nonlinear integrable differential and difference systems. 86j:58001

Open problems in structure theory of nonlinear integrable differential and difference systems ★ Open problems in structure theory of nonlinear integrable differential and difference systems. 86j:58001

Problems:

Structure theory of nonlinear integrable differential and difference systems ★ Open problems in structure theory of nonlinear integrable differential and difference systems. 86j:58001

35-03 Historical (must also be assigned at least one classification number from Section 01)

secondary classifications (35-03)

- Avantaggiati, A. Carlo Miranda. (Italian) 86j:01037
- (Euler, Leonhard) See Lützen, Jesper, 86a:01019
- Lopatinakii, Ya. B. ★ Теория общих граничных задач. (Russian) [Theory of general boundary value problems] 86k:01051
- Lützen, Jesper Euler's vision of a general partial differential calculus for a generalized kind of function. 86a:01019
- (Miranda, Carlo) See Avantaggiati, A., 86j:01037
- Roşculeţ, M. N. ★ Ecuaţii diferenţiale şi aplicaţii. (Romanian) [Differential equations and applications] 86m:35002
- Sharkovskii, A. N. (with Shevelo, V. N.) Development of the theory of differential equations at the Institute of Mathematics of the Academy of Sciences of the Ukrainian SSR. (Russian) 86j:01033
- Shevelo, V. N. See Sharkovskii, A. N., 86j:01033
- Bibliography:
- Lopatinakii, Ya. B. See Lopatinakii, Ya. B., 86k:01051
- Miranda, Carlo See Avantaggiati, A., 86j:01037
- Obituary:
- Miranda, Carlo See Avantaggiati, A., 86j:01037

35-04 Explicit machine computation and programs (not the theory of computation or programming)

secondary classifications (35-04)

- Gerd, V. P. (with Shvachka, A. B.; Zharkov, A. Yu.) FORMINT—a program for the classification of integrable nonlinear evolution equations. 86i:35007
- Shvachka, A. B. See Gerd, V. P. et al., 86i:35007
- Zharkov, A. Yu. See Gerd, V. P. et al., 86i:35007

35-06 Proceedings, conferences, etc.

- (Arnesen, G.) See Differential problems and the theory of critical points, 86m:35003
- (Dshuraev, T. D.) See Boundary value problems for differential equations and their applications, 86d:35001
- (Emel'yanov, K. V.) See Differential equations with a small parameter, 86f:35002
- (Fortunato, Donato) See Differential problems and the theory of critical points, 86m:35003
- (Greco, Donato) See Methods of functional analysis and theory of elliptic equations, 86j:35002
- (Ifin, A. M.) See Differential equations with a small parameter, 86f:35002
- (Ladyshenakaya, O. A.) See Boundary value problems of mathematical physics and related problems in the theory of functions, 86i:35001
- (Miranda, Carlo) See Methods of functional analysis and theory of elliptic equations, 86j:35002
- (Trèves, F.) See Pseudodifferential operators and applications, 86f:35003
- (Vaillant, Jean) See Propagation of singularities and differential operators, 86d:35003
- (Volkodavov, V. F.) See Partial differential equations, 86d:35002
- Bari ★ Problemi differenziali e teoria dei punti critici. (Italian) [Differential problems and the theory of critical points] 86m:35003
- Boundary value problems for differential equations and their applications ★ Краевые задачи для дифференциальных уравнений и их приложения. (Russian) [Boundary value problems for differential equations and their applications] 86d:35001
- Boundary value problems of mathematical physics and related problems in the theory of functions ★ Boundary value problems of mathematical physics and related problems in the theory of functions. No. 17. (Russian) 86i:35001
- Differential equations with a small parameter ★ Дифференциальные уравнения с малым параметром. (Russian) [Differential equations with a small parameter] 86f:35002
- Differential problems and the theory of critical points ★ Problemi differenziali e teoria dei punti critici. (Italian) [Differential problems and the theory of critical points] 86m:35003

Meeting:

Differential problems and the theory of critical points ★ *Problemi differenziali e teoria dei punti critici*. (Italian) [Differential problems and the theory of critical points] 86m:35003

Methods of functional analysis and theory of elliptic equations ★ *Methods of functional analysis and theory of elliptic equations*. 86j:35002

Methods of functional analysis and theory of elliptic equations ★ *Methods of functional analysis and theory of elliptic equations*. 86j:35002

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Notre Dame, Ind. ★ *Pseudodifferential operators and applications*. 86f:35003

Partial differential equations ★ *Дифференциальные уравнения с частными производными*. (Russian) [Partial differential equations] 86d:35002

Proceedings of Symposia in Pure Mathematics ★ *Pseudodifferential operators and applications*. 86f:35003

Propagation of singularities and differential operators ★ *Propagation des singularités et opérateurs différentiels*. (French) [Propagation of singularities and differential operators] 86d:35003

Pseudodifferential operators and applications ★ *Pseudodifferential operators and applications*. 86f:35003

Seminar:

Goulaouic-Meyer-Schwartz ★ *Séminaire Goulaouic-Meyer-Schwartz*, 1983-1984. (French) [Goulaouic-Meyer-Schwartz seminar, 1983-1984] 86f:35004

Symposium:

Pseudodifferential operators and Fourier integral operators with applications to partial differential equations ★ *Pseudodifferential operators and applications*. 86f:35003

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(Lanckau, E.) See *Complex analysis*, 86b:30001a and 86b:30001b

(Latfullin, G. M.) See *Differential equations and some of their applications*, 86d:00006

(Samarakli, A. A.) See *Numerical mathematics and software*, 86m:65007

(Tikhonov, A. N.) See *Numerical mathematics and software*, 86m:65007

(Tutschke, Wolfgang) See *Complex analysis and its applications to partial differential equations*, 86f:00014; *Complex analysis*, 86b:30001a and 86b:30001b

Complex analysis ★ *Complex analysis*. 86b:30001a

Complex analysis and its applications to partial differential equations ★ *Complex analysis and its applications to partial differential equations*. 86f:00014

Differential equations and some of their applications ★ *Дифференциальные уравнения и некоторые их приложения*. (Russian) [Differential equations and some of their applications] 86d:00006

Numerical mathematics and software ★ *Вычислительная математика и математическое обеспечение ЭВМ*. (Russian) [Numerical mathematics and software] 86m:65007

Seminar:

Bony-Sjöstrand-Meyer, partial differential equations ★ *Séminaire Bony-Sjöstrand-Meyer*, 1984-1985. (French) [Bony-Sjöstrand-Meyer seminar, 1984-1985] 86j:00010

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secondary classifications (35Axx)

Matsuno, Yoshimasa ★ *Bilinear transformation method*. 86f:35163

35A05 General existence and uniqueness theorems

Aguilera M., José C. An existence and uniqueness theorem for partial differential equations of parabolic or hyperbolic type. (Spanish. English summary) 86j:35003

Alinhac, S. Unicité pour certains problèmes de Cauchy non-linéaires, complexes, du premier ordre. [Uniqueness for some first-order complex nonlinear Cauchy problems] (See 86f:35004)

Cosner, Chris (with Schindler, Frank) Upper and lower solutions for systems of second order equations with nonnegative characteristic form and discontinuous nonlinearities. 86f:35005

Luan, Wen Gul Uniqueness and continuous dependence of Cauchy problem for linear partial differential equations. 86d:35004

Palyutkin, V. G. Asymptotic uniqueness of solutions of differential equations. (Russian) 86h:35001

Asymptotic uniqueness theorems for the solution of a differential equation with variable coefficients. (Russian) 86a:35002

Saint Raymond, Xavier Non-unicité de Cauchy pour des opérateurs principalement normaux. [Cauchy nonuniqueness for principally normal operators] 86e:35001

Schindler, Frank See Cosner, Chris, 86f:35005

Schuchman, Vladimir On quasilinear uniqueness. 86k:35001

Uryu, Hitoshi Conditions for well-posedness in Gevrey classes of the Cauchy problems for Fuchsian hyperbolic operators. 86h:35002

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Colombeau, J.-F. Nouvelles solutions d'équations aux dérivées partielles. (English summary) [New solutions for partial differential equations] 86i:35020

Lau, Chi Ping The existence and nonexistence of a nonparametric solution to equations of minimal surface type. 86m:53012

Luo, Xue Bo Multiplication in S' and the solvability and hypoellipticity of a class of linear partial differential operators in S' . (Chinese) (Not in MR)

Vu Kim Tuan The number of solutions of a system of partial differential equations. (Russian) 86f:35050

Wanka, Gert Ein Existenztheorem für eine Klasse von allgemeinen Dirichletischen Randkontaktproblemen bei linearen elliptischen Differentialgleichungen zweiter Ordnung. [An existence theorem for a class of general Dirichlet boundary-contact problems of second-order linear elliptic differential equations] 86e:35044

35A07 Local existence and uniqueness theorems [See also 35H05, 35Sxx.]

Adjamagbo, K. Sur les systèmes linéaires d'équations aux dérivées partielles localement inversibles. (English summary) [On locally invertible systems of partial differential equations] 86j:35004

Alinhac, S. Uniqueness and nonuniqueness in the Cauchy problem. 86e:35001

Unicité du problème de Cauchy pour des opérateurs du second ordre à symboles réels. [Uniqueness of the Cauchy problem for second-order operators with real symbols] 86a:35003

Borszysowski, Andrzej A Goursat problem for some partial differential equation of order 2p. (Russian summary) 86h:35003

Dehman, Belhassen Unicité du problème de Cauchy pour une classe d'opérateurs quasi-homogènes. [Uniqueness of the Cauchy problem for a class of quasihomogeneous operators] 86f:35006

Gourdin, Daniel (with Kadri, Hamid) Un théorème d'unicité pour le problème de Cauchy relatif à une classe de systèmes différentiels linéaires à caractéristiques multiples. (English summary) [A theorem of uniqueness for the Cauchy problem related to a class of linear differential systems with multiple characteristics] 86k:35002

Hamada, Yûsaku (with Takeuchi, Akira) Le domaine d'existence et le prolongement analytique de la solution du problème de Cauchy à données singulières. [Domain of existence and analytic continuation of the solution of the Cauchy problem with singular data] 86f:35007

Kadri, Hamid See Gourdin, Daniel, 86k:35002

Kiro, Shmuel Necessary and sufficient conditions for local solvability of nonsolvable partial differential equations. 86g:35001

Necessary and sufficient conditions for solvability of nonsolvable linear partial differential equations. 86i:35002

Lerner, Nicolas Unicité du problème de Cauchy pour des opérateurs elliptiques. [Uniqueness of the Cauchy problem for elliptic operators] 86g:35002

(with Robbiano, Luc) Unicité de Cauchy pour des opérateurs de type principal. [Cauchy uniqueness for operators of principal type] 86j:35005

Unicité de Cauchy pour des opérateurs différentiels faiblement principalement normaux. [Cauchy uniqueness for weakly principally normal differential operators] 86j:35006

Loren, Michael Unsolvability of hypoelliptic differential operators with a totally characteristic point. 86b:35002

Mandal, Takeshi On exceptional cases of Cauchy problems for Fuchsian partial differential operators. 86e:35002

Nirenberg, Louis Uniqueness in the Cauchy problem for a degenerate elliptic second order equation. 86f:35008

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Saint Raymond, Xavier Non-unicité pour certains problèmes de Cauchy complexes non linéaires du premier ordre. (English summary) [Nonuniqueness in certain first-order nonlinear complex Cauchy problems] 86m:35004

Segala, F. A class of locally solvable differential operators. (Italian summary) 86i:35003

Takeuchi, Akira See Hamada, Yûsaku, 86f:35007

Zeman, Marvin Uniqueness of solutions to the initial-value problem for partial differential equations with multiple characteristics. 86f:35009

Zully, C. Unicité du problème de Cauchy pour des opérateurs elliptiques à caractéristiques de hautes multiplicités. [Uniqueness of the Cauchy problem for elliptic operators with high multiplicity characteristics] 86d:35005

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Chen, Yun Mei See Xu, Li Cun, 86e:35006

Georgiev, Chavdar See Popivanov, P. R., 86i:35151

Kwon, Kil Hyun Hypoellipticity and local solvability of operators with double characteristics. 86k:35163

Popivanov, P. R. (with Georgiev, Chavdar) Necessary condition for local solvability of operators with double characteristics. (Bulgarian. English and Russian summaries) 86i:35151

Saint Raymond, Xavier Unicité de Cauchy pour les équations aux dérivées partielles linéaires du premier ordre. (English summary) [Uniqueness in the Cauchy problem for first-order linear pde's] 86e:35029

Serra, Elena Local solvability for a class of totally characteristic operators. 86f:35187

Xu, Li Cun (with Chen, Yun Mei) Local solvability and hypoellipticity for a class of evolution equations. (Chinese) 86e:35006

35A08 Fundamental solutions

Lenyuk, M. P. Branching fundamental solutions of the Cauchy problem for invariant B-parabolic operators. (Russian) 86d:35006

35A10 Cauchy-Kowalewski theorems

Georgiev, V. S. A uniqueness theorem of Holmgren's type for the first-order systems. 86h:35004

Jannelli, Enrico Linear Kovalevskian systems with time-dependent coefficients. 86d:35007

Mogilevskaya, L. B. The Cauchy-Kovalevskaya theorem for a Banach space. (Russian) 86e:35002

Sadamatsu, Takashi On the Cauchy-Kowalewski theorem for general system of differential equations. 86d:35008

Yoshino, Masafumi An application of generalized implicit function theorem to Goursat problems for nonlinear Leray-Volevich systems. 86j:35007

secondary classifications (35A10)

Baouendi, M. S. (with Goulaouic, C.; Trèves, F.) Uniqueness in certain first-order nonlinear complex Cauchy problems. 86g:35045

Goulaouic, C. See Baouendi, M. S. et al., 86g:35045

- Métivier, Guy Un théorème de Cauchy-Kowalewski pseudodifférentiel local. [A local pseudodifferential Cauchy-Kowalewski theorem] **86h:35137**
- Trèves, F. See Baouendi, M. S. et al., **86g:35045**
- Walter, Wolfgang Functional differential equations of the Cauchy-Kowalevsky type. **86e:35142**

35A15 Variational methods

- Maly, Jan Positive quasiminima. **86c:35003**

secondary classifications (35A15)

- Liu, Chang Mao On the forms of the Euler-Lagrange equations. (Chinese. English summary) **86c:58023**

35A20 Analytic methods, singularities

- Allinac, S. (with Métivier, Guy) Propagation de l'analyticité des solutions d'équations nonlinéaires de type principal. [Propagation of analyticity for solutions of nonlinear equations of principal type] **86c:35003**

(with Métivier, Guy) Propagation de l'analyticité des solutions de systèmes hyperboliques non-linéaires. [Propagation of the analyticity of solutions of nonlinear hyperbolic systems] **86f:35010**

Paracomposition et application aux équations non-linéaires. [Paracomposition and application to nonlinear equations] (See **86j:00010**)

- Avantaggiati, A. Analytic or quasi-analytic periodic solutions for differential equations with constant coefficients. (Italian) **86g:35003**

- Hamada, Yûsaku (with Takeuchi, Akira) Le domaine d'existence et le prolongement analytique des solutions des problèmes de Goursat et de Cauchy à données singulières. II. (English summary) [Existence domain and analytic continuation for the solutions of Goursat and Cauchy problems with singular data. II] **86c:35003**

- Illner, Reinhard (with Reed, Michael) Decay to equilibrium for the Carleman model in a box. **86f:35011**

- Januskauskas, Algimantas Generalization of the theory of irregular singularities to partial differential equations. (Russian. English and Lithuanian summaries) **86j:35008**

- Kessab, Amor Propagation du front d'onde Gevrey des solutions d'équations à caractéristiques multiples involutives. (English summary) [Propagation of Gevrey wave front sets of solutions of equations with multiple involutive characteristics] **86h:35005**

- Kobayashi, Takao On the singularities of the solution to the Cauchy problem with singular data in the complex domain. **86c:35004**

- Kráľ, Josef Singularities of solutions of partial differential equations. (Russian) **86a:35004**

- Laubin, P. Propagation des singularités analytiques pour des opérateurs à caractéristiques involutives de multiplicité variable. (English summary) [Propagation of analytic singularities for operators with involutive characteristics of variable multiplicity] **86a:35005**

- Leichtnam, Éric Construction de solutions singulières pour des équations aux dérivées partielles non linéaires. (English summary) [Construction of singular solutions for nonlinear partial differential equations] **86c:35005**

- Léonard, Paul (with Wuldar, José) Sur la diffraction dans les problèmes aux limites. (English summary) [Diffraction in boundary value problems] **86f:35012**

- Li, Da Qian Global smooth solutions and development of singularities for nonlinear hyperbolic partial differential equations. (See **86m:35002**)

- Martines, André Prolongement des solutions holomorphes de problèmes aux limites. [Extension of holomorphic solutions of boundary value problems] **86i:35004**

- Melrose, R. B. (with Ritter, Niles) Interaction of nonlinear progressing waves for semilinear wave equations. **86m:35005**

- Métivier, Guy See Allinac, S., **86f:35010** and **86k:35003**

- Ôuchi, Sunao Singular solutions of linear partial differential equations in complex domains. (Japanese) **86i:35005**

- Qi, Min You Generalized Fuchsian partial differential equations. (Chinese. English summary) **86a:35006**

- Reed, Michael See Illner, Reinhard, **86f:35011**

- Ritter, Niles See Melrose, R. B., **86m:35005**

- Takeuchi, Akira See Hamada, Yûsaku, **86c:35003**

- Wakabayashi, Seichiro Analytic singularities of solutions of the hyperbolic Cauchy problem. **86c:35004**

- Wuldar, José See Léonard, Paul, **86f:35012**

- Yoshikawa, Atsuhiko A study of a certain nonconventional operator of principal type. **86g:35004**

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- Bachelot-Motet, Agnès Une estimation a priori sur les solutions de l'équation des ondes pénalisée, en dimension 1 d'espace. (English summary) [An a priori estimate for the solutions of $\square u_\varepsilon = (1/\varepsilon)u_\varepsilon$ in one space variable] **86g:35012**

- Colton, David Analytic continuation of solutions to partial differential equations with applications to problems in scattering theory. (See **86h:30001a**)

- Dershavets, B. A. Systems of partial differential equations in a space of functions analytic in the ball and having a given growth near its boundary. (Russian) **86i:35105**

- Dobrushkin, V. A. Analytic solution of a static boundary value problem of the plane theory of elasticity. (Russian) **86k:35020**

- Gruman, Lawrence Differences of difference equations with nonconstant coefficients. **86f:32006**

- Hansen, Sönke Singularities of transmission problems. **86a:58107**

- Iwasaki, Chiato (with Morimoto, Yoshinori) Propagation of singularities of solutions for a hyperbolic system with nilpotent characteristics. II. **86g:35116**

- Kráľ, Josef Semielliptic singularities. (Russian and Czech summaries) **86c:35044**

- Lascar, B. (with Sjöstrand, Johannes) Équation de Schrödinger et propagation pour des O.D.P. à caractéristiques réelles de multiplicité variable. II. [Schrödinger equation

and propagation for pseudodifferential operators with real characteristics of variable multiplicity. II] **86j:35100**

- Laubin, P. Réfraction conique et propagation des singularités analytiques. [Conical refraction and propagation of analytic singularities] **86g:58139**

- Leichtnam, Éric Front d'onde d'une sous-variété H^s [resp. C^p], propagation des singularités. (English summary) [Wave front set of a submanifold H^s [resp. C^p], propagation of singularities] **86c:58143**

- Lychagin, V. V. Singularities of multivalued solutions of nonlinear differential equations, and nonlinear phenomena. **86f:58165**

- Mandal, Takashi On exceptional cases of Cauchy problems for Fuchsian partial differential operators. **86c:35002**

- Michell, Lucio Propagation of singularities for nonstrictly hyperbolic semilinear systems in one space dimension. **86k:35083**

- Morimoto, Yoshinori See Iwasaki, Chiato, **86g:35116**

- Ôshima, Toshio A definition of boundary values of solutions of partial differential equations with regular singularities. **86d:35009**

- Polking, J. C. A survey of removable singularities. **86f:32013**

- Rakhmatullayev, A. Kh. General solution of a linear complex second-order equation with an isolated singularity of the coefficient. (Russian) **86g:35047**

- Rybka, Piotr The behaviour of weak singularities on characteristic surfaces with multiplicity change. (Russian summary) **86g:35120**

- Sadamatsu, Takashi On the Cauchy-Kowalewski theorem for general system of differential equations. **86d:35008**

- Sjöstrand, Johannes See Lascar, B., **86j:35100**

- Tran Huy Ho Propagation et interaction des singularités pour les équations hyperboliques semi-linéaires en dimension 1 d'espace. (English summary) [Propagation and interaction of singularities for hyperbolic semilinear equations in one space dimension] **86c:35006**

- Tutschke, Wolfgang Solution of the Cauchy problem in classes of functions that are three-dimensional generalizations of generalized analytic functions. (Russian) **86i:35009**

- Wakabayashi, Seichiro Singularities of solutions of the hyperbolic Cauchy problem in Gevrey classes. **86a:58110**

Singularities of solutions of the Cauchy problem for symmetric hyperbolic systems. **86b:35123**

- Zampieri, Giuseppe Propagation of singularity and existence of real analytic solutions of locally hyperbolic equations. **86c:58142**

35A22 Transform methods

- Ahlbrandt, Calvin D. (with Hinton, Don; Lewis, Roger T.) Inversion in the unit sphere for powers of the Laplacian. **86b:35003**

- Hinton, Don See Ahlbrandt, Calvin D. et al., **86b:35003**

- Lewis, Roger T. See Ahlbrandt, Calvin D. et al., **86b:35003**

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- Bergamasco, L. See Osborne, A. R., **86k:35143**

- Galaktionov, V. A. (with Kurdyumov, S. P.; Samarskii, A. A.) Approximate self-similar solutions of a class of quasilinear heat equations with a source. (Russian) **86b:35087**

- Kurdyumov, S. P. See Galaktionov, V. A. et al., **86b:35087**

- Osborne, A. R. (with Bergamasco, L.) The small-amplitude limit of the spectral transform for the periodic Korteweg-de Vries equation. (Italian and Russian summaries) **86k:35143**

- Samarskii, A. A. See Galaktionov, V. A. et al., **86b:35087**

35A25 Other special methods

- Bertrand, P. See Nguyen Van Tuan et al., **86c:35005**

- Coifman, R. E. (with Meyer, Y.) Nonlinear harmonic analysis and analytic dependence. (See **86f:35003**)

- Feix, M. R. See Nguyen Van Tuan et al., **86c:35005**

- Herrera, Ismael ★ Boundary methods. **86m:35006**

- Meyer, Y. See Coifman, R. E., (86f:35003)

- Mirică, Şt. A generalization of Cauchy's method of characteristics. **86h:35006**

- Nguyen Van Tuan (with Bertrand, P.; Feix, M. R.) Time renormalisation numerical method for the K.d.V. equation. **86c:35005**

secondary classifications (35A25)

- Cheney, Margaret Two-dimensional inverse scattering: compactness of the generalized Marchenko operator. **86g:35199**

- Edelen, Dominic G. B. Semi-inverse methods for obtaining partial differential equations with chaotic solutions. **86j:58136**

- Lieberman, Gary M. The Perron process applied to oblique derivative problems. **86c:35041**

- Mikhailov, L. G. Formulas for the representation of solutions of certain noncanonical second-order complex partial differential equations. (Russian. Tajiki summary) **86c:35028**

- Shapeev, V. P. Intermediate integrals of a second-order partial differential equation with three independent variables. (Russian) **86a:58002**

35A27 Sheaf-theoretic and microlocal methods; methods of homological algebra [See also 32C38, 58G07]

- Gramchev, T. V. An application of the analytic microlocal analysis to a class of differential operators of mixed type. **86k:35004**

- Popivanov, P. R. Microlocal properties of pseudodifferential operators with double involutive characteristics. (Russian) **86c:35006**

- Zampieri, Giuseppe Algebraic conditions on partial differential operators for existence of microlocal fundamental solutions with singularities carried by proper cones. (Italian summary) **86c:35007**

secondary classifications (35A27)

- Alabidi, Ali. Réflexion transverse des singularités pour un problème aux limites non linéaire d'ordre 2. (English summary) [Transversal reflection of singularities for a second-order nonlinear boundary value problem] **86m:35032**
- (Brylinski, J.-L.) See Kashiwara, Masaki, **86b:58113**
- Kashiwara, Masaki. Systems of microdifferential equations. **86b:58113**
- Kiro, Shmuel. Necessary and sufficient conditions for local solvability of nonsolvable partial differential equations. **86g:35001**
- Laubin, P. Propagation des singularités analytiques pour des opérateurs à caractéristiques involutives de multiplicité variable. (English summary) [Propagation of analytic singularities for operators with involutive characteristics of variable multiplicity] **86a:35005**
- Leichtnam, Éric. Front d'onde d'une sous-variété H^s [resp. C^p], propagation des singularités. (English summary) [Wave front set of a submanifold H^s [resp. C^p], propagation of singularities] **86i:58143**
- (Monteiro Fernandes, Teresa) See Kashiwara, Masaki, **86b:58113**
- Nishitani, Tatsuo. A note on reduced forms of effectively hyperbolic operators and energy integrals. **86c:35092**
- Popivanov, P. R. Propagation of C^∞ , analytic and Gevrey singularities for a class of hyperbolic initial-boundary value problems. **86j:35101**
- Sablé-Tougeron, Monique. Régularité microlocale pour des problèmes aux limites non linéaires. (English summary) [Microlocal regularity for nonlinear boundary value problems] **86m:35033**
- Sternin, B. Yu. Differential equations of subprincipal type. (Russian) **86b:58117**
- Tajima, Shinichi. Analyse microlocale sur les variétés de Cauchy-Riemann et problème de Lewy pour les solutions hyperfonctions. [Microlocal analysis on Cauchy-Riemann manifolds and the Lewy problem for hyperfunction solutions] **86g:58128**
- Taylor, Michael E. Noncommutative microlocal analysis. I. **86f:58156**
- Trépeau, Jean-Marie. Sur l'hypoellipticité analytique microlocale des opérateurs de type principal. [Microlocal analytic hypoellipticity of operators of principal type] **86m:58144**

35A30 Geometric theory, characteristics, transformations

- Calogero, F. (with Degasperis, A.) Elementary Bäcklund transformations, nonlinear superposition formulae and algebraic construction of solutions for the nonlinear evolution equations solvable by the Zakharov-Shabat spectral transform. **86h:35007**
- Cherniha, R. M. The maximal algebra of invariance of the hyperbolic heat equation. (Russian. English summary) **86f:35013**
- Chirkunov, Yu. A. Steady oscillations in an inhomogeneous half space in the presence of a hyperplane of degeneration. (Russian) **86i:35006**
- Degasperis, A. See Calogero, F., **86h:35007**
- Fushchich, V. I. (with Serov, N. I.) Some exact solutions of the multidimensional nonlinear Euler-Lagrange equation. (Russian) **86c:35008**
- Ignat'ev, V. N. (with Medvedevskii, V. A.) Group analysis of equations of the boundary layer of a non-Newtonian fluid. (Russian) **86k:35005**
- Medvedevskii, V. A. See Ignat'ev, V. N., **86k:35005**
- Ohshima, Toshio. A definition of boundary values of solutions of partial differential equations with regular singularities. **86d:35009**
- Pukhnachev, V. V. Group analysis of nonstationary Marangoni boundary layer equations. (Russian) **86k:35006**
- Serov, N. I. See Fushchich, V. I., **86c:35008**
- Strampp, Walter. Bäcklund transformations and recursion operators via symmetry. **86k:35007**

secondary classifications (35A30)

- Ames, W. F. Invariant solutions of the underwater acoustic wave equation. **86k:76054**
- Archilla, J. F. R. See Romero, F. et al., **86j:35076**
- Boliti, M. (with Konopelchenko, B. G.; Pempinelli, F.) Bäcklund transformations via gauge transformations in $2+1$ dimensions. **86g:58070**
- Bořshakov, N. E. (with Potapenko, P. P.) A criterion for asymptotic stability of Pfaffian differential systems with g -perturbations. (Russian) **86g:34068**
- Boyer, C. P. (with Kalnins, E. G.; Winternitz, P.) Separation of variables for the Hamilton-Jacobi equation on complex projective spaces. **86k:58129**
- Burridge, Robert. The group of motions in the plane and separation of variables in cylindrical coordinates. **86m:35024**
- Elkin, V. I. A differential-geometric approach to the study of partial differential equations. (Russian) **86f:58174**
- Fushchich, V. I. (with Serov, N. I.) Symmetry and some exact solutions of the multidimensional Monge-Ampère equation. (Russian) **86b:35062**
- Großmann, A. (with Paul, T.) Wave functions on subgroups of the group of affine canonical transformations. **86f:81042**
- Harada, Hitoshi (with Oishi, Shin'ichi) A new approach to completely integrable partial differential equations by means of the singularity analysis. **86h:58074**
- Jørgensen, Palle E. T. Representations of differential operators on a Lie group, and conditions for a Lie algebra of operators to generate a representation of the group. **86k:22031**
- Kallappan, P. Lie transformations and Lie-Bäcklund transformations applicable to soliton systems. (See **86i:35132**)
- Kalnins, E. G. (with Miller, Willard, Jr.) Related evolution equations and Lie symmetries. **86j:58154**
- See also Boyer, C. P. et al., **86k:58129**
- Khabirov, S. V. Classification of first-order Bäcklund transformations for third-order evolution equations with a constant separant. (Russian) **86k:58136**
- Konopelchenko, B. G. See Boliti, M. et al., **86g:58070**
- Kosmann-Schwarzbach, Yvette. Lie algebras of symmetries of partial differential equations. **86c:58087**
- Krasil'shchik, I. S. See Vinogradov, A. M., **86i:58159**

- Leo, M. (with Leo, R. A.; Soliani, G.; Martina, L.) On the use of closed nonabelian prolongation algebras to find Bäcklund transformations of nonlinear evolution equations. **86b:58109**
- Leo, R. A. See Leo, M. et al., **86b:58109**
- Martina, L. See Leo, M. et al., **86b:58109**
- Megrabov, A. G. A group approach to inverse problems for differential equations. (Russian) **86c:58089**
- Michalec, J. Group classification of equations describing shock waves in polarizable solids. (Russian and Polish summaries) **86a:73042**
- Miller, Willard, Jr. See Kalnins, E. G., **86j:58154**
- Nikitin, A. G. Separation of variables in systems of partial differential equations, invariant with respect to the group $O(3)$. (Russian. English summary) **86d:81041**
- Oishi, Shin'ichi. See Harada, Hitoshi, **86h:58074**
- Paul, Sudhir. See Roy Chowdhury, A., **86d:58107**
- Paul, T. See Grossmann, A., **86f:81042**
- Pempinelli, F. See Boliti, M. et al., **86g:58070**
- Popov, M. D. Automated calculation of the defining equations of a Lie group. (Russian. English summary) **86m:22006**
- Potapenko, P. P. See Bořshakov, N. E., **86g:34068**
- Romero, F. (with Romero, J. L.; Archilla, J. F. R.) Diffusion equations for nonhomogeneous media. Existence of similarity solutions. **86j:82076**
- Romero, J. L. See Romero, F. et al., **86j:82076**
- Roy Chowdhury, A. (with Paul, Sudhir) Lax pair, Lie-Bäcklund symmetry and hereditary operator for the Thompson equation. **86d:58107**
- Sergienko, L. N. Solution of the Cauchy problem of constructing an integral hypersurface of a first-order partial differential equation. (Russian) **86k:35027**
- Serov, N. I. See Fushchich, V. I., **86c:35062**
- Shabat, A. B. See Zhiber, A. V., **86c:58078**
- Shefel, M. B. Generalization of the group analysis method for derivation of Bäcklund transforms and formulas for superposition of solutions of nonlinear partial differential equations. (Russian. English summary) **86b:35183**
- Shih, Wei-shu. Quelques exemples d'applications de l'homologie sectionnaire à l'étude des équations aux dérivées partielles. (English summary) [Some examples of applications of sectional homology to the study of partial differential equations] **86i:58138**
- Shnider, S. (with Winternitz, P.) Nonlinear equations with superposition principles and the theory of transitive primitive Lie algebras. **86c:58072**
- Sokolov, V. V. See Svinolupov, S. I. et al., **86g:58076**
- Soliani, G. See Leo, M. et al., **86b:58109**
- Strampp, Walter. Lax-pairs, spectral problems, and recursion operators. **86b:35185**
- Sung, Li-Yeng. On the perfectly reflecting boundary conditions. **86c:35031**
- Svinolupov, S. I. (with Sokolov, V. V.; Yamilov, R. I.) Bäcklund transformations for integrable evolution equations. (Russian) **86g:58076**
- Tsujishita, Toru. Formal geometry of differential equation systems. (Japanese) **86d:58130**
- Vinogradov, A. M. (with Krasil'shchik, I. S.) On the theory of nonlocal symmetries of nonlinear partial differential equations. (Russian) **86c:58159**
- Ward, R. S. The Painlevé property for the self-dual gauge-field equations. **86a:35133**
- Winternitz, P. See Shnider, S., **86c:58072** and Boyer, C. P. et al., **86k:58129**
- Yamilov, R. I. See Svinolupov, S. I. et al., **86g:58076**
- Zhiber, A. V. (with Shabat, A. B.) Systems of equations $u_x = p(u, v)$, $v_y = q(u, v)$ that possess symmetries. (Russian) **86c:58078**

35A35 Theoretical approximation to solutions

- Aleksidze, M. A. (with Silagadze, G. S.; Pertaya, K. V.) Approximate solution of boundary value problems for the Klein-Gordon equation. (Russian) **86c:35009**
- Alessandrini, Giovanni (with Douglas, Avron; Fabes, E. B.) An approximate layering method for the Navier-Stokes equations in bounded cylinders. (Italian summary) **86a:35007**
- Boltsun, S. A. See Kovach, Yu. I., **86c:35007** and **86k:35008**
- Carl, S. Näherungslösungen gemischter Probleme bei partiellen Differentialgleichungen durch partielle Umkehrung der Differentialoperatoren. [Approximate solutions of mixed problems for partial differential equations, by means of partial inversion of the differential operators] **86m:35007**
- Douglas, Avron. See Alessandrini, Giovanni et al., **86a:35007**
- Fabes, E. B. See Alessandrini, Giovanni et al., **86a:35007**
- Gendshoyan, G. V. Solution of boundary value problems for the Laplace equation in doubly connected infinite domains bounded by circles by the method of successive approximations. (Russian. Armenian summary) **86h:35008**
- Habrat, Stanisław. A modification of the method of Euler polygons in application to the equation $u_{xy} = f(x, y, u, u_x, u_y)$. (Polish. English and Russian summaries) **86c:35006**
- Kovach, Yu. I. (with Boltsun, S. A.) Investigation of accelerated convergence of a two-sided analytic process for nonlinear partial differential equations. (Russian) **86c:35007** (with Boltsun, S. A.) Analytic two-sided methods of approximate integration of the Cauchy problem for partial differential equations. (Russian) **86k:35008**
- Marinets, T. I. See Marinets, V. V., **86a:35008**
- Marinets, V. V. (with Marinets, T. I.) A modification of the two-sided method of approximate integration of differential equations of implicit form. (Russian) **86a:35008**
- Pertaya, K. V. See Aleksidze, M. A. et al., **86c:35009**
- Petrov, K. M. Boundedness of successive approximations in a case of a rarefaction wave. (Bulgarian. English and Russian summaries) **86a:35009**
- The method of successive approximations for a quasilinear hyperbolic system in one case of a line of strong discontinuity. (Bulgarian. English and Russian summaries) **86a:35010**
- Silagadze, G. S. See Aleksidze, M. A. et al., **86c:35009**
- Takaci, Djurdjica. The approximate solution of a differential equation in many steps. (Serbo-Croatian summary) **86f:35014**
- Tutechke, Wolfgang. Solution of the Cauchy problem in classes of functions that are three-dimensional generalizations of generalized analytic functions. (Russian) **86k:35009**
- Yuan, Yi Wu. A new approximate solution of nonlinear diffusion equation. (Not in MR)

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- Bol'shakovskii, S. A. Approximate solution of the Dirichlet problem for a second-order elliptic equation in domains of arbitrary form. (Russian) **86i:65060**
- Cosner, Chris (with Rundell, William) Extension of solutions to second-order partial differential equations by the method of quasireversibility. **86c:35159**
- Edel'shtein, S. L. (with Simonenko, I. B.) Estimates for quasipolynomials and the convergence in highest norms of approximation methods of solving elliptic problems in domains with corners. (See **86i:00003**)
- Gaifullina, L. P. An approximate method for solving elliptic equations. (Russian) **86f:35064**
- Golichev, I. I. Solution of nonlinear problems for parabolic equations by the method of successive approximations. (Russian) **86j:35090**
- Herrera, Ismael ★ Boundary methods. **86m:35006**
- Levin, A. M. Isolation of singularities in the solution of elliptic boundary value problems by the method of integral equations of the first kind. (Russian) **86g:35059**
- Martin, Paul Andrew On the null-field equations for water-wave scattering problems. **86b:76020**
- Moisevich, V. B. Convergence of iteration methods in Sobolev spaces. (Russian) **86i:65030**
- Mushkashvili, M. G. On the theory of approximation of solutions of the Dirichlet problem for degenerate elliptic equations. (Russian. English and Georgian summaries) **86c:35057**
- Nagiev, N. M. Approximate solution of boundary value problems in the class of functions $E_{\alpha, \alpha}^{(k)}(k)$. (Russian. English and Azerbaijani summaries) **86b:65137**
- Neuberger, J. W. Steepest descent for general systems of linear differential equations in Hilbert space. **86c:34121**
- le Roux, Alain Yves Approximation of initial and boundary value problems for quasilinear first order equations. **86k:65082**
- Rundell, William See Cosner, Chris, **86c:35159**
- Schols, Reinhard On the rate of convergence for the approximation of nonlinear problems. (See **86j:65008**)
- Schürer, Andreas Konstruktion vollständiger Systeme zur Approximation von Lösungen für Randwertaufgaben der Wärmeleitung. [Construction of complete systems for approximating the solutions of boundary value problems of heat conduction] **86c:65112**
- Simon, László On approximation of the solutions of quasilinear elliptic equations in R^n . **86c:35051**
- Simonenko, I. B. See Edel'shtein, S. L., (**86b:00003**)
- Spiridonov, M. Ya. Approximations of solutions of elliptic problems in domains with noncompact boundaries by solutions of exterior or interior problems. (Russian) **86k:35039**
- Struwe, Michael A global compactness result for elliptic boundary value problems involving limiting nonlinearities. **86k:35046**
- Sukretnyi, V. I. Averaging of boundary value problems for elliptic equations in perforated domains. (Russian) **86b:35042**
- de Swart, H. E. ★ Construction and analysis of a low order spectral model of the barotropic potential vorticity equation in a beta channel. **86m:76027**

35A40 Numerical approximation to solutions {For numerical analysis, see 65Mxx, 65Nxx, 65P05.}

- Gerd, V. P. (with Shvachka, A. B.; Zharkov, A. Yu.) FORMINT—a program for the classification of integrable nonlinear evolution equations. **86i:35007**
- Ito, Masaaki A REDUCE program for evaluating a Lax pair form. **86g:35005**
- Shvachka, A. B. See Gerd, V. P. et al., **86i:35007**
- Zharkov, A. Yu. See Gerd, V. P. et al., **86i:35007**

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- Dahumagarsleva, S. Kh. Numerical investigation of a partial differential equation. **86f:65163**
- Simonov, N. A. A random walk algorithm for the solution of boundary value problems with partition into subdomains. (Russian) **86k:65121**

35A99 None of the above, but in this section

- Chen, Qi Hong Invariants of second-order linear differential equations. (Chinese. English summary) **86f:35015**
- Kayunov, O. N. Nonstandard solutions of equations of mathematical physics. (Russian) **86d:35010**
- Takuchi, Jiro Some remarks on my paper: "On the Cauchy problem for some non-Kowalewskian equations with distinct characteristic roots" [J. Math. Kyoto Univ. **20** (1980), no. 1, 105–124; MR **81i:35013**]. **86j:35009**

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- Andronikof, Emmanuel Sur une question de S. Mizohata. (English summary) [On a question of S. Mizohata] **86f:58146**
- Bachelot, Alain (with Hanouzet, Bernard) Applications bilinéaires compatibles avec un système différentiel à coefficients variables. (English summary) [Bilinear mappings compatible with a differential system with variable coefficients] **86c:35034**
- Berger, Marc Aron (with Sloan, Alan D.) Characteristic methods for multidimensional evolution equations. **86k:35160**
- Björk, Jan-Erik On characteristic varieties. **86c:58133**
- Chen, Goong (with Sun, Shun Hua; Zheng, Quan) Well-posedness, control and computation of a one-phase Stefan problem with Neumann condition. **86i:35148**
- Dacorogna, B. Regularization of nonelliptic variational problems. **86d:49020**
- Felix, Rainer Solvability of differential equations with linear coefficients of nilpotent type. **86k:22024**

GI', M. I. ★ Операторные функции, дифференциальные уравнения и динамика систем. (Russian) [Operator functions, differential equations and the dynamics of systems] **86g:34089**

- Hanousek, Bernard See Bachelot, Alain, **86c:35034**
- Hounie, Jorge A note on global solvability of vector fields. **86h:35032**
- Howe, Roger (with Ratcliff, Gail; Wildberger, Norman) Symbol mappings for certain nilpotent groups. **86a:22014**
- Johnson, Joseph Prolongations of integral domains. **86i:12008**
- Klaris, Bernard (with Sadler, Charles) Study of a linear connection of several variables in the neighbourhood of an irregular singularity with normal crossing. **86g:32017**
- Levin, Sonia Linear dynamical systems with partial derivatives. **86m:93025**
- Lion, Gérard Résolubilité d'opérateurs différentiels semi-invariants sur l'espace d'une représentation induite. (English summary) [Solvability of semi-invariant differential operators on the fiber bundle of an induced representation] **86f:58164**
- Majima, Hideoyuki Riemann-Hilbert-Birkhoff problem for integrable connections with irregular singular points. **86g:58003**
- Matsumoto, Walchirō Characterization of the separativity of ultradifferentiable classes. **86i:46042**
- Parenti, C. Problème de Cauchy pour des opérateurs fuchsien. [The Cauchy problem for Fuchsian operators] **86g:35126**
- Rasulov, A. B. Representation of the manifold of solutions and investigation of the Cauchy problem for some systems of differential equations of general form with a singular line. (Russian. Tajiki summary) **86k:30051**
- Ratcliff, Gail See Howe, Roger et al., **86a:22014**
- Reimann, H. M. Invariant systems of differential operators. **86j:43007**
- Resnick, Bruce Continued fractions and an annelidic PDE. **86c:11007**
- Sadler, Charles See Klaris, Bernard, **86g:32017**
- Sharipov, B. Some systems in total differentials that are explicitly integrable. (Russian. Tajiki summary) **86c:58005**
- Sloan, Alan D. See Berger, Marc Aron, **86k:35160**
- Sun, Shun Hua See Chen, Goong et al., **86i:35148**
- Tutschke, Wolfgang Initial value problems with generalized analytic functions as initial functions. (See **86i:00013**)
- Wildberger, Norman See Howe, Roger et al., **86a:22014**
- Wu, Da Kun A generalization of total differential equations. (Chinese) (Not in MR)
- Zheng, Quan See Chen, Goong et al., **86i:35148**
- Zubov, S. V. Analytic form of a family of solutions of a system of partial differential equations. (Russian. English summary) (See **86g:34001**)

35Bxx Qualitative properties of solutions

Colton, David Analytic continuation of solutions to partial differential equations with applications to problems in scattering theory. (See **86h:30001a**)

secondary classifications (35Bxx)

Véron, Laurent Global behaviour and symmetry properties of singular solutions of nonlinear elliptic equations. (French summary) **86g:35073**

35B05 Comparison theorems; oscillation, zeros and growth of solutions

- Allegretto, V. Sturmian theorems for second order systems. **86d:35011**
- Altin, Abdullah Comparison and oscillation theorems for singular ultrahyperbolic equations. (Turkish summary) **86h:35009**
- Bandle, Catherine Comparison theorems for second- and fourth-order elliptic equations. **86i:35008**
- Bauman, Patricia Positive solutions of elliptic equations in nondivergence form and their adjoints. **86m:35008**
- Chan, C. Y. Nonexistence of positive solutions for singular hyperbolic differential inequalities. **86j:35010**
- Chandra, Jagdish (with Ladde, G. S.) Comparison theorems and stochastic boundary value problems. **86c:35046**
- Dobrotvor, I. G. Conditions for oscillation of solutions of a class of equations with biharmonic operator in the space E^n . (Russian) **86c:35010**
- (Embarek, Djilali) See Torae, A., **86d:35012b**
- Headley, V. B. Sharp nonlogarithmic Kneser theorems for fourth-order elliptic equations. **86i:35009**
- Kreith, K. (with Swanson, C. A.) Kiguradze classes for characteristic initial value problems. **86m:35009**
- Ladde, G. S. See Chandra, Jagdish, **86c:35046**
- Mamedov, I. T. A theorem on the oscillation of solutions of second-order parabolic equations with discontinuous coefficients. (Russian. English and Azerbaijani summaries) **86c:35008**
- Müller-Pfeiffer, E. An extension of the Sturm-Picone theorem to elliptic differential equations. **86b:35004**
- Noussair, Essat S. (with Swanson, C. A.) Global positive solutions of semilinear elliptic problems. **86j:35011**
- Ôtani, Mitsuharu A remark on certain nonlinear elliptic equations. **86c:35009**
- Payne, L. E. (with Philippin, G. A.) Comparison theorems for a class of nonlinear elliptic boundary value problems. **86k:35010**
- Philippin, G. A. See Payne, L. E., **86k:35010**
- Swanson, C. A. See Noussair, Essat S., **86j:35011** and Kreith, K., **86m:35009**
- Torae, A. Criteria for the oscillatory behavior of solutions of equations of elliptic type. (Russian) **86b:35005**

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Integral criteria for oscillation and nonoscillation for elliptic equations in unbounded domains. (Russian. English summary) **86d:35012c**

Theorems of the type of Kneser's theorem for elliptic equations. (Russian) **86b:35006**

- Oscillation of elliptic operators and the structure of their spectrum. (Russian) **86f:35016**
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 The oscillation of solutions of elliptic equations. (Russian) **86m:35010**
 Yoshida, Norio An oscillation theorem for sublinear elliptic differential inequalities. **86a:35011**
 Forced oscillations of extensible beams. **86m:35011**

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- Boccardo, L. (with Murat, F.; Puel, J.-P.) Existence de solutions non bornées pour certaines équations quasi-linéaires. [Existence of unbounded solutions for some quasilinear equations] **86m:35000**
 Kalashnikov, A. S. Dependence of properties of solutions of parabolic equations in unbounded domains on the behavior of coefficients at infinity. (Russian) **86m:35003**
 Propagation of perturbations in processes described by degenerate parabolic equations with nonpower nonlinearities. (Russian. English summary) **86i:35074**
 Kolomiets, V. G. (with Pritula, N. N.) Single-frequency oscillations in nonlinear systems with distributed parameters under random actions. (Russian) **86e:35150**
 Lin, Fang Hua On the elliptic equation $D_{ij}(x)D_j U - k(x)U + K(x)U^p = 0$. **86k:35041**
 Malac, Marian Inégalités différentielles fonctionnelles du type elliptique. [Functional-differential inequalities of elliptic type] **86g:35069**
 Murat, F. See Boccardo, L. et al., **86m:35000**
 Pritula, N. N. See Kolomiets, V. G., **86e:35150**
 Puel, J.-P. See Boccardo, L. et al., **86m:35000**
 Schuls, Friedmar A priori estimates and a Liouville theorem for elliptic Monge-Ampère equations. **86d:35048**
 Shendge, G. R. (with Vatsala, A. S.) Comparison results for parabolic differential equations at resonance. **86a:35075**
 Vatsala, A. S. See Shendge, G. R., **86a:35075**

35B10 Periodic solutions

- Basile, Nicola (with Mininni, Michele) Multiple periodic solutions for a semilinear wave equation with nonmonotone nonlinearity. (See **86m:35003**)
 Biler, Piotr Large-time behaviour of periodic solutions to dissipative equations of Korteweg-de Vries-Burgers type. (Russian summary) **86g:35006**
 Cesari, L. (with Pucci, Patricia) Global periodic solutions of the nonlinear wave equation. **86g:35007**
 Cheban, D. N. Periodic and quasiperiodic solutions of linear differential equations. (Russian) **86g:35008**
 Hermann, Leopold Periodic solutions to a one-dimensional strongly nonlinear wave equation with strong dissipation. **86g:35009**
 Invernizzi, Sergio Using angle conditions in existence theorems for periodic solutions of ordinary differential systems. (Italian) (See **86i:00019**)
 Lakshmikantham, V. (with Pandit, S. G.) Periodic solutions of hyperbolic partial differential equations. **86h:35010**
 Maginu, Kenjiro Geometrical characteristics associated with stability and bifurcations of periodic travelling waves in reaction-diffusion systems. **86m:35012**
 McKenna, P. J. On solutions of a nonlinear wave question when the ratio of the period to the length of the interval is irrational. **86f:35017**
 Mininni, Michele See Basile, Nicola, (**86m:35003**)
 Nakao, Mitsuhiro Periodic solutions of some nonlinear degenerate parabolic equations. **86d:35013**
 Pandit, S. G. See Lakshmikantham, V., **86h:35010**
 Pucci, Patricia See Cesari, L., **86g:35007**
 Schiaffino, A. (with Schmitt, Klaus) Periodic solutions of a class of nonlinear evolution equations. **86c:35010**
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 Vejvoda, Otto (with Štěrý, Milan) Existence of classical periodic solutions of the wave equation. The relation of the number-theoretic character of the period and the geometric properties of solutions. (Russian) **86g:35010**
 Volkov, V. T. See Vasil'eva, A. B., **86h:35011**
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- Harauz, Alain On a uniqueness theorem of L. Amerio and G. Prouse. **86c:35101**
 Kannan, Rangachary (with Lakshmikantham, V.) Periodic solutions of nonlinear boundary value problems. **86k:34012**
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 Liu, Bao Ping (with Pao, C. V.) On periodic traveling wave solutions of Boussinesq equation. **86i:35128**
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 Mawhin, J. (with Ward, James R., Jr.) Asymptotic nonuniform nonresonance conditions in the periodic-Dirichlet problem for semilinear wave equations. **86f:35123**
 Meirmanov, A. M. Structure of the generalized solution of the Stefan problem. Periodic solutions. (Russian) **86b:35074**

- de Mottoni, P. Bifurcation of periodic solutions for periodic quasilinear parabolic equations and systems. (Russian summary) **86k:58025**
 Ōtani, Mitsuharu See Kenmochi, Nobuyuki, **86h:34076**
 Pao, C. V. See Liu, Bao Ping, **86i:35128**
 Pascali, Dan Approximation-solvability of a semilinear wave equation. **86c:47062**
 Rudakov, I. A. Nonlinear oscillations of a string. (Russian) **86h:35085**
 A problem on free periodic vibrations of a string with nonmonotone nonlinearity. (Russian) **86i:35094**
 Shendge, G. R. (with Vatsala, A. S.) Comparison results for parabolic differential equations at resonance. **86a:35075**
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 Willem, M. Subharmonic oscillations of a semilinear wave equation. **86h:35086**
 Wu, Shao Ping (with Liu, Jia Quan) A note on the resonance case for asymptotically linear wave equations. **86k:35089**

35B15 Almost periodic solutions

- Lyashenko, A. A. Non-almost periodicity solutions of S. L. Sobolev's equation. (Russian) **86f:35018**
 Scheurle, Jürgen Quasiperiodic solutions of a semilinear equation in a two-dimensional strip. **86d:35014**
 Tkach, B. P. Quasiperiodic solutions of certain systems of mixed partial differential equations of retarded type. (Russian) **86g:35011**
 Pseudoperiodic and quasiperiodic solutions of some systems of equations with mixed partial derivatives. (Russian) **86c:35011**
 Viola, Gabriella An a priori estimate for the solution of the third boundary value problem associated with a class of second-order elliptic equations with nonregular coefficients. (Italian. English summary) **86f:35019**

secondary classifications (35B15)

- Birolli, M. Correction to Theorem XIX of the paper: "On the bounded almost periodic solutions of evolution equations and inequalities" [Ann. Mat. Pura Appl. (4) **93** (1972), 1-79; MR **47#** 9380]. (French) **86b:47104**
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 Goldstein, J. A. See Corduneanu, Constantin, **86k:34057**
 Lê Xuân Cẩn Quasiperiodic solutions of a nonlinear system of partial differential equations with delay. (Russian) **86c:35141**
 Quasiperiodic solutions of a nonlinear system of partial differential equations with lag. (Russian) **86a:35138**
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 Naito, Koichiro On convergence and asymptotically almost periodicity of solutions of reaction-diffusion systems. **86j:35099**
 Pao, C. V. See Liu, Bao Ping, **86c:35077**

35B20 Perturbations

- (Oleinik, O. A.) See Sánchez-Palencia, Enrique, **86c:35011**
 Perel'muter, M. A. (with Semenov, Yu. A.) Finiteness of the rate of propagation of perturbations for hyperbolic equations. (Russian) **86c:35012**
 Sánchez-Palencia, Enrique ★ Неоднородные среды и теория колебаний. (Russian) [Nonhomogeneous media and vibration theory] **86c:35011**
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 Zhikov, V. V. See Sánchez-Palencia, Enrique, **86c:35011**

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- Heinrich, Jörg Einige Bemerkungen zur Anfangs-Randwertaufgabe $(\partial/\partial t)u - h(x, t)\Delta u = f$ mit meßbarem Koeffizienten. (English and Russian summaries) [Some remarks on the initial-boundary value problem $(\partial/\partial t)u - h(x, t)\Delta u = f$ with measurable coefficients] **86i:35061**
 Müller-Pfeiffer, E. Some remarks on Courant's variation principle for elliptic differential operators. **86f:35062**
 Tan, Yong Ji Perturbations for a class of linear hyperbolic equations with a singular term. (Chinese) **86h:35079**

35B25 Singular perturbations

- Bachelot-Motet, Agnès Une estimation a priori sur les solutions de l'équation des ondes pénalisée, en dimension 1 d'espace. (English summary) [An a priori estimate for the solutions of $\square u_\varepsilon = (1/\varepsilon)u_\varepsilon$ in one space variable] **86g:35012**
 Barker, John W. Interactions of fast and slow waves in problems with two time scales. **86b:35008**
 Butusov, V. F. (with Nesterov, A. V.) A singularly perturbed problem of parabolic type. (Russian) (See **86f:34002**)
 Damilanian, Alain (with Li, Da Qian) Homogénéisation sur le bord pour des problèmes elliptiques. (English summary) [Homogenization of the boundary conditions for elliptic problems] **86m:35013**
 Dombrovskii, V. A. An asymptotic method for studying the solutions of distributed systems. (Russian) **86f:35020**
 Frank, Léonid S. Perturbations singulières coercives. IV. Problème des valeurs propres. (English summary) [Coercive singular perturbations. IV. The eigenvalue problem] **86g:35013**
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- Gao, Ru Xi Singular perturbations for quasilinear hyperbolic equations. **86b:35009**
Singular perturbation problems for higher-order hyperbolic equations. (Chinese)
(Not in MR)
- Singular perturbations of the Cauchy problem for second-order quasilinear hyperbolic equations. (Chinese) **86b:35013**
- Gingold, H. Problems of mathematical physics which depend on a parameter and Jacobi series. **86i:35011**
- Gshde, D. Interior estimates for singularly perturbed problems. (German and Russian summaries) **86g:35015**
- Iannelli, Annamaria (with Norando, Tullia) Singular perturbations for quasiperiodic solutions of variational inequalities. II. (Italian) **86g:35016**
- Li, Da Qian See Damlamian, Alain, **86m:35013**
- Lin, Zong Chi (with Ni, Shou Ping) Singular perturbation of general boundary value problem for higher order quasilinear elliptic equation involving many small parameters. **86a:35013**
- Maryanyan, S. M. See Sabatnikov, M. M., **86f:35023**
- Najman, B. The rate of convergence in singular perturbations of parabolic equations. **86a:35015**
- Nesterov, A. V. See Butusov, V. F., **(86f:34003)**
- Ni, Shou Ping See Lin, Zong Chi, **86a:35013**
- Norando, Tullia Homogenization estimates for quasivariational inequalities. (Italian) (See **86i:00019**)
- See also Iannelli, Annamaria, **86g:35016**
- Pyatnitskii, A. L. Averaging of a singularly perturbed equation with rapidly oscillating coefficients in a layer. (Russian) **86f:35021**
- Rees, Hans-Görg Ein singular gestörtes elliptisches Problem mit Resonanz. [A singularly perturbed elliptic problem with resonance] **86a:35014**
- Sabatnikov, M. M. (with Maryanyan, S. M.) The asymptotic behavior of the solution of a boundary value problem for a quasilinear elliptic equation. (Russian) **86f:35023**
- Taimal, V. M. A singularly perturbed mixed problem for a hyperbolic equation. (Russian) **86a:35014**
- Wendt, W. D. See Frank, Léonid S., **86g:35014**
- secondary classifications (35B25)
- Barashkov, A. S. Regular expansion of solutions of singularly perturbed equations. (Russian) **86m:35020**
- Bonnans, J. F. (with Casas, E.; Lobo, M.) A singular perturbation problem in optimal control. (Spanish) **86b:49044**
- Butusov, V. F. (with Nikitin, A. G.) A singularly perturbed elliptic boundary value problem in a rectangle in the critical case. (Russian) **86c:35020**
- Casas, E. See Bonnans, J. F. et al., **86b:49044**
- Chang, K. W. (with Howes, F. A.) ★Nonlinear singular perturbation phenomena: theory and applications. **86a:34090**
- Dodd, Roger See Morris, Hedley C. et al., **86m:35146**
- Fattorini, H. O. Singular perturbation and boundary layer for an abstract Cauchy problem. **86b:34113**
- Floede, Ornella One-parameter quasielliptic problems in the half space, and singular perturbations. (Italian. English summary) **86i:35056**
- Gajewski, H. (with Sparing, H.-D.) On the limit of some diffusion-reaction system with small parameter. (German and Russian summaries) **86a:35074**
- Gao, Ru Xi Singular perturbations for higher-order hyperbolic equations. I. (Chinese. English summary) **86b:35115**
- Singular perturbations for higher-order hyperbolic equations. II. (Chinese. English summary) **86b:35116**
- Glachetti, Daniela Some homogenization results for strongly nonlinear equations. **86m:35056**
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- Jiang, Fu Ru The boundary value problems for quasilinear higher-order elliptic equations with a small parameter. **86i:35046**
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- Kalyakin, L. A. Asymptotic behavior of the solution of a hyperbolic system of equations with nonlinear perturbation. (Russian) **86b:35123**
- Kasymov, K. A. (with Kadykenov, B. M.) The Cauchy problem with initial jump for singularly perturbed linear hyperbolic equations degenerating into a first-order equation. (Russian) **86k:35073**
- Krupkin, P. L. A quasilinear elliptic equation with a small parameter. (Russian) **86g:35077**
- Lobo, M. See Bonnans, J. F. et al., **86b:49044**
- Markowich, Peter A singular perturbation analysis of the fundamental semiconductor device equations. **86e:78024**
- Milani, Albert Singular limits of quasilinear hyperbolic systems in a bounded domain of \mathbb{R}^3 with applications to Maxwell's equations. **86a:35094**
- Moet, Henry Johan Karel Sur la convergence de la frontière libre dans les problèmes de perturbations singulières relatives aux inéquations variationnelles elliptiques: passage du deuxième ordre au premier ordre. (English summary) [On the convergence of the free boundary in singular perturbation problems related to elliptic variational inequalities: passage from second order to first order] **86a:49011**
- Morris, Hedley C. (with Sheil, Derek; Dodd, Roger) Invariant manifolds and alternative approaches to reductive perturbation theory: dissipative systems. **86m:35146**
- Nikitin, A. G. See Butusov, V. F., **86c:35020**
- Renardy, Michael Singularly perturbed hyperbolic evolution problems with infinite delay and an application to polymer rheology. **86a:35095**
- Renno, Pasquale On a wave theory for the operator $\varepsilon \partial_t (\partial_t^2 - c_1^2 \Delta_N) + \partial_t^2 - c_0^2 \Delta_N$. **86c:35095**
- Sheil, Derek See Morris, Hedley C. et al., **86m:35146**
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- Spiridonov, M. Ya. Approximations of solutions of elliptic problems in domains with noncompact boundaries by solutions of exterior or interior problems. (Russian) **86k:35039**
- Suvélina, I. V. The Cauchy problem for nonstationary equations with small viscosity. (Russian) **86k:35066**
- Vasil'eva, A. B. (with Volkov, V. T.) Periodic solutions of certain singularly perturbed equations of parabolic type. (Russian) **86b:35011**
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- 35B30 Dependence of solutions on initial and boundary data, parameters
- Baumeister, J. On the differentiable dependence upon the data of the free boundary in a two-phase Stefan problem. **86f:35023**
- Conrad, Francis The local behaviour of turning points in nonlinear eigenvalue problems. Application to parameter identification. **86b:35010**
- Franchi, Franca (with Morro, A.) Continuous dependence and uniqueness for heat-conducting viscous fluids in bounded domains. **86a:35015**
- Morro, A. See Franchi, Franca, **86a:35015**
- Raitums, U. On the continuous dependence on parameters of solutions of almost linear elliptic equations. (Russian) **86g:35017**
- secondary classifications (35B30)
- Alexiades, V. See Solomon, A. D. et al., **86g:35216**
- Coener, Chris Some estimates of the norm of solutions of nonlinear elliptic eigenvalue problems. **86a:35054**
- Khoma, G. P. Analytic dependence of solutions of hyperbolic equations on a parameter. (Russian) **86m:35104**
- Luan, Wen Gui Uniqueness and continuous dependence of Cauchy problem for linear partial differential equations. **86d:35004**
- Payne, L. E. Improved stability estimates for classes of ill posed Cauchy problems. **86i:35153**
- Solomon, A. D. (with Wilson, D. G.; Alexiades, V.) The quasistationary approximation for the Stefan problem with a convective boundary condition. **86g:35216**
- Spagnolo, Sergio Dependence on coefficients of solutions of linear hyperbolic equations. (Italian) **86m:35097**
- Wilson, D. G. See Solomon, A. D. et al., **86g:35216**
- Xu, Chao Jiang Régularité des solutions pour les équations aux dérivées partielles quasi linéaires non elliptiques du second ordre. (English summary) [Regularity of solutions of second-order nonelliptic quasilinear partial differential equations] **86m:35073**
- Zaitsev, V. A. Weak gaps for one-dimensional strictly hyperbolic equations with constant coefficients. (Russian) **86k:35076**
- 35B32 Bifurcation
- Cerami, Giovanna (with Fortunato, Donato; Struwe, Michael) Bifurcation and multiplicity results for nonlinear elliptic problems involving critical Sobolev exponents. (French summary) **86a:35016**
- Cimetière, Alain Méthode de Liapounov-Schmidt et branche de bifurcation pour une classe d'inéquations variationnelles. (English summary) [The Liapunov-Schmidt method and bifurcating branch for a class of variational inequalities] **86f:35024**
- Fortunato, Donato See Cerami, Giovanna et al., **86a:35016**
- Hess, Peter On positive solutions of semilinear periodic-parabolic problems. **86d:35015**
- Küpper, Tassilo (with Kuusta, B.) Verzweigung bei Rückkopplungsproblemen. [Bifurcation in feedback problems] **86g:35018**
- Kuusta, B. See Küpper, Tassilo, **86g:35018**
- Laser, A. C. (with McKenna, P. J.) Critical point theory and boundary value problems with nonlinearities crossing multiple eigenvalues. **86f:35025**
- McKenna, P. J. See Laser, A. C., **86f:35025**
- Nishitani, Yasumasa Global structure of bifurcating solutions of some reaction-diffusion systems and their stability problem. **86f:35026**
- Smoller, Joel A. (with Wasserman, Arthur G.) Generic bifurcation of steady-state solutions. **86b:35013**
- Solá-Morales, J. Destabilizing effects of the essential spectrum in semilinear PDEs. (Spanish) (See **86g:00009**)
- Struwe, Michael See Cerami, Giovanna et al., **86a:35016**
- Vegas, José M. A Hopf bifurcation generated by variation of the domain. **86a:35015**
- Wasserman, Arthur G. See Smoller, Joel A., **86b:35013**
- Wieber, Henning S-shaped bifurcation curves of nonlinear elliptic boundary value problems. **86f:35027**
- secondary classifications (35B32)
- Akhromeeva, T. S. (with Malinetskii, G. G.) The simplest types of ordering in two-dimensional dissipative systems. (Russian) **86b:35076**
- (with Kurdyumov, S. P.; Malinetskii, G. G.; Samarekii, A. A.) Classification of two-component systems in a neighborhood of a bifurcation point. (Russian) **86i:58090**
- Amick, Charles J. Semilinear elliptic eigenvalue problems on an infinite strip with an application to stratified fluids. **86i:35042**
- Auchmuty, Giles Bifurcation analysis of reaction-diffusion equations. IV. Size dependence. **86h:92006**
- Auchmuty, J. F. G. Bifurcation analysis of reaction-diffusion equations. V. Rotating waves on a disc. **86b:35097**
- Bajaj, A. K. (with Sethna, P. R.) Flow induced bifurcations to three-dimensional oscillatory motions in continuous tubes. **86d:78017**
- Crăciun, P. T. See Mangeron, Dumitru Ion et al., **86k:58130**
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- Demichele, Cataldo (with Matteo, Alba) Existence of nontrivial solutions for some elliptic problems in \mathbb{R}^n . (Italian. English summary) **86f:35077**
- Demahoryan, Anka See Mangeron, Dumitru Ion et al., **86k:58130**
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- Weissler, Fred B. Single point blow-up for a semilinear initial value problem. **86a:35076**
- An L^∞ blow-up estimate for a nonlinear heat equation. **86k:35064**
- ### 35B45 A priori estimates
- Arkhipova, A. A. Limit smoothness of the solution of a time-dependent problem with one or two obstacles. (Russian) **86f:35032**
- Bolmatov, K. Kh. Separability theorems, weighted spaces and their applications. (Russian) **86k:35015**
- Cwikel, Michael (with Fabes, E. B.; Kenig, Carlos E.) On the lack of L^∞ -estimates for solutions of elliptic systems or equations with complex coefficients. **86d:35022**
- Davydova, L. V. The weak Harnack inequality for quasilinear elliptic equations. (Russian) **86g:35023**
- Fabes, E. B. See Cwikel, Michael et al., **86d:35022**
- Fokht, A. S. Estimates of solution of equations of elliptic type in the metric of L_p , $1 < p < \infty$. (Russian) **86b:35019**
- Kenig, Carlos E. See Cwikel, Michael et al., **86d:35022**
- Ladyzhenskaya, O. A. (with Ural'tseva, N. N.) Estimates of $\max |u_x|$ for solutions of quasilinear elliptic and parabolic equations of general type, and some existence theorems. (Russian. English summary) **86d:35023**
- Raitums, U. On the loss of smoothness of differential operators in the case of G -convergence. (Russian) **86c:35017**
- Ural'tseva, N. N. See Ladyzhenskaya, O. A., **86d:35023**
- secondary classifications (35B45)
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- Bessonov, Yu. L. (with Fokht, A. S.) Estimates for solutions of homogeneous linear equations of elliptic type of arbitrary order with variable coefficients near the boundary of the domain. (Russian) **86c:35043**
- Birrell, M. Existence of regular solutions for nonlinear Signorini's problem. **86c:35053**
- Bokhonov, Yu. E. A priori estimation for solutions of a second-order parabolic system with measurable coefficients. (Russian) **86b:35062**
- Brézis, H. Semilinear equations in R^N without condition at infinity. **86f:35076**
- Chabrowski, J. Dirichlet problem for a linear elliptic equation in unbounded domains with L^2 -boundary data. **86c:35039**
- Chen, Ya Zhe Hölder estimates for solutions of uniformly degenerate quasilinear parabolic equations. **86k:35060**
- Chen, Zu Chi (with Shen, Yao Tian) The a priori estimate for a class of second order semilinear elliptic systems in $W_{2,0}^2$. **86c:35050**
- Cosner, Chris (with Schmitt, Klaus) A priori bounds for positive solutions of a semilinear elliptic equation. **86b:35045**
- Evans, L. C. Some estimates for nondivergence structure, second order elliptic equations. **86g:35056**
- Fila, Marek An a priori estimate of the derivative u_x of a solution of a quasilinear parabolic equation. (Russian. English and Slovak summaries) **86b:35064**
- Fokht, A. S. See Bessonov, Yu. L., **86c:35043**
- Franchi, Bruno (with Lanconelli, Ermanno) An embedding theorem for Sobolev spaces related to nonsmooth vector fields and Harnack inequality. **86b:46048**
- Gruber, Manfred Harnack inequalities for solutions of general second order parabolic equations and estimates of their Hölder constants. **86b:35089**
- Horiuchi, Toshio Existence and uniqueness of classical solutions for certain degenerated elliptic equations of the second order. **86b:35069**
- Ivanov, Aleksandr Vasil'evich Second-order nonlinear nonuniformly elliptic equations. (Russian. English summary) **86b:35050**
- Kapustin, N. Yu. Sharp anti-a priori estimates for eigen- and associated functions of an elliptic operator. (Russian) **86a:35111**
- Khudaikuliev, G. A priori estimation of the solution of a parabolic equation. (Russian) **86c:35066**
- Koleznikova, E. A. Subelliptic estimates for a problem with directional derivative in L^p . (Russian) **86c:35042**
- Kondrat'ev, V. A. (with Kopáček, Jiří; Lekveishvili, D. M.; Oleinik, O. A.) Sharp estimates in Hölder spaces and the exact Saint-Venant principle for solutions of the biharmonic equation. (Russian) **86c:35046**
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- Lekveishvili, D. M. See Kondrat'ev, V. A. et al., **86c:35046**
- Maly, Jan Positive quassiminima. **86c:35003**
- Oleinik, O. A. See Kondrat'ev, V. A. et al., **86c:35046**
- Safonov, M. V. The classical solution of the elliptic Bellman equation. (Russian) **86f:35081**
- Schmitt, Klaus See Cosner, Chris, **86b:35045**
- Schulz, Friedmar A priori estimates for solutions of Monge-Ampère equations. **86g:35070**
- Sgambati, Luciana A priori bounds for elliptic second-order linear equations in two variables in unbounded domains. (Italian. English summary) **86b:35041**
- Shen, Yao Tian See Chen, Zu Chi, **86c:35050**
- Trudinger, Neil S. (with Urbas, John I. E.) On second derivative estimates for equations of Monge-Ampère type. **86b:35064**
- Urbas, John I. E. See Trudinger, Neil S., **86b:35064**
- Viola, Gabriella An a priori estimate for the solution of the third boundary value problem associated with a class of second-order elliptic equations with nonregular coefficients. (Italian. English summary) **86f:35019**
- Wildenhain, Günther About C -estimates for solutions of linear higher order elliptic equations. **86c:35047**
- ### 35B50 Maximum principles
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- Kresin, G. I. See Mas'ya, V. G., **86f:35033**
- Mas'ya, V. G. (with Kresin, G. I.) The maximum principle for second-order strongly elliptic and parabolic systems with constant coefficients. (Russian) **86f:35033**
- Protter, M. H. (with Weinberger, Hans F.) ★ Maximum principles in differential equations. **86f:35034**
- Roitburd, Victor Phragmén-Lindelöf type results for periodic solutions of parabolic equations on a half-line. **86k:35017**
- Schröder, Johann Generalized maximum principles for strongly coupled parabolic systems. **86b:35016**
- Vásquez, J. L. A strong maximum principle for some quasilinear elliptic equations. **86m:35018**
- Weinberger, Hans F. See Protter, M. H., **86f:35034**
- secondary classifications (35B50)
- DeTurck, Dennis M. (with Koiso, Norihito) Uniqueness and nonexistence of metrics with prescribed Ricci curvature. (French summary) **86i:53022**
- Kamynin, L. I. A theorem on the interior derivative for a weakly degenerate elliptic equation of second order. (Russian) **86b:35055**
- Kawohl, Bernhard Starshapedness of level sets for the obstacle problem and for the capacitory potential problem. **86c:35063**
- Koiso, Norihito See DeTurck, Dennis M., **86i:53022**
- Malec, Marian Maximum principle for elliptic nonlinear functional-differential operators. (Italian. English summary) **86b:35044**
- Mamedguelinov, R. K. Regularity of boundary points for second-order degenerate quasilinear parabolic equations. (Russian. English and Azerbaijani summaries) **86c:35076**
- Rothe, Frans ★ Global solutions of reaction-diffusion systems. **86d:35071**

35B60 Continuation and prolongation [See also 58A15, 58A17, 58Hxx.]

secondary classifications (35B60)

- Ebihara, Yukiyoichi On classical solutions to degenerate quasilinear parabolic equations. **86c:35083**
 Tarkhanov, N. N. An analogue of Painlevé's theorem for elliptic systems. (Russian) **86k:35084**

35B65 Smoothness of solutions

- Bénilan, P. A strong regularity L^p for solution of the porous media equation. **86c:35018**
 Iwasaki, Chiato Construction of the fundamental solution for degenerate parabolic systems and its application to construction of a parametrix of Ω . **86f:35035**
 Kondrat'ev, V. A. (with Oleinik, O. A.) Sharp estimates in Hölder spaces for generalized solutions of the biharmonic equation, the system of Navier-Stokes equations and the von Kármán system in nonsmooth two-dimensional domains. (Russian) **86f:35036**
 Krüskal, Michal (with Neittaanmäki, P.) On the validity of Friedrichs' inequalities. **86b:35020**
 López, Martín Estimates for integral moduli of continuity for solutions of elliptic equations. **86k:35018**
 Mamedov, F. M. Boundedness of derivatives of solutions of parabolic equations near an irregular boundary point. (Russian. English and Azerbaijani summaries) **86b:35017**
 Neittaanmäki, P. See Krüskal, Michal. **86b:35020**
 Oleinik, O. A. See Kondrat'ev, V. A. **86f:35036**
 Talenti, Giorgio On functions, whose lines of steepest descent bend proportionally to level lines. **86b:35021**

secondary classifications (35B65)

- Abbasov, A. A. Some qualitative properties of solutions of a mixed problem for degenerate elliptic equations in nonsmooth domains. (Russian. English and Azerbaijani summaries) **86m:35069**
 Alabidi, Ali Réflexion transverse des singularités pour un problème aux limites non linéaire d'ordre 2. (English summary) [Transversal reflection of singularities for a second-order nonlinear boundary value problem] **86m:35032**
 Campanato, Sergio Regularity of solutions in $H^{m,q}$ of nonlinear elliptic system. (Italian) **86c:35049**
 Hölder continuity and partial Hölder continuity results for $H^{1,q}$ -solutions of nonlinear elliptic systems with controlled growth. (Italian summary) **86m:35052**
 Chelkak, S. I. Regularity of solutions of quasilinear elliptic systems of higher order. (Russian) **86b:35058**
 Chen, Shu Xing Regularity estimate of solution to semilinear wave equation in higher space dimension. **86i:35090**
 Chersopova, M. F. Smoothness of the solution of the Cauchy problem for a 2p-parabolic equation. (Russian) **86b:35082**
 Daluk, Gerhard C^2 -regularity for partially free minimal surfaces. **86b:58037**
 Fuchs, Martin Eine Bemerkung zur Hebbarkeit gewisser isolierter Singularitäten bei nichtlinearen elliptischen Systemen. [A comment on the removability of certain isolated singularities in nonlinear elliptic systems] **86i:35040**
 Garnir, H. G. Propagation des singularités analytiques dans les problèmes aux limites de la physique mathématique par les méthodes de Kawai-Kashiwara et Sjöstrand dans le cas de l'espace indéfini. [Propagation of analytic singularities in boundary value problems of mathematical physics by the Kawai-Kashiwara and Sjöstrand methods in the case of indefinite space] **86a:58080**
 Ikebe, Nobunori See Ohara, Yasuhiro. **86c:35062**
 Kamynin, L. I. (with Khimchenko, B. N.) A theorem on an infinite derivative for a second-order parabolic equation with a nonnegative characteristic form. (Russian) **86j:35077**
 (with Khimchenko, B. N.) A theorem on the interior derivative for a second-order parabolic equation. (Russian) **86j:35078**
 Khimchenko, B. N. See Kamynin, L. I. **86j:35077** and **86j:35078**
 Krantz, Steven G. Lipschitz spaces, smoothness of functions, and approximation theory. **86g:41001**
 Kubota, Kaji Parametrix and propagation of singularities near gliding points for mixed problems for symmetric hyperbolic systems. I. **86i:35085a**
 Parametrix and propagation of singularities near gliding points for mixed problems for symmetric hyperbolic systems. II. **86i:35085b**
 Leonetti, Francesco Partial regularity of the solutions of a class of nonlinear elliptic systems. (Italian) **86b:35055**
 Lunardi, Alessandra An extension of Schauder's theorem to little-Hölder continuous functions. (Italian summary) **86b:35039**
 Nadirashvili, N. S. A differential property of solutions of second-order elliptic equations. (Russian) **86i:35035**
 Ohara, Yasuhiro (with Ikebe, Nobunori) On the Hölder continuity of the solutions for degenerate elliptic equations. **86c:35062**
 Penning, F. D. On the regularity up to the boundary of solutions of elliptic boundary value problems. **86m:35050**
 Popivanov, P. R. Propagation of C^∞ , analytic and Gevrey singularities for a class of hyperbolic initial-boundary value problems. **86j:35101**
 Rothschild, Linda Preiss Analyticity of solutions of partial differential equations on nilpotent Lie groups. **86c:22017**
 Saak, E. M. On the "erasure" of singularities of solutions to strongly elliptic systems. (Russian) **86b:35043**
 Sablé-Taugeron, Monique Régularité microlocale pour des problèmes aux limites non linéaires. (English summary) [Microlocal regularity for nonlinear boundary value problems] **86m:35033**
 Schild, Bernhard ★ Über die Regularität der Lösungen polyharmonischer Variationsungleichungen mit ein- und zweiseitigen dünnen Hindernissen. (German) [On the regularity of the solutions of polyharmonic variational inequalities with one- and two-sided thin obstacles] **86a:49015**

Schulz, Friedmar Boundary estimates for solutions of Monge-Ampère equations in the plane. **86c:35056**

Shaw, M.-C. Global solvability and regularity for $\bar{\partial}$ on an annulus between two weakly pseudoconvex domains. **86m:32030**

Trudinger, Neil S. Regularity of solutions of fully nonlinear elliptic equations. **86j:35080**

Wuldar, José Diffraction des singularités analytiques dans les problèmes aux limites de la physique mathématique par les méthodes de Kawai-Kashiwara et Sjöstrand. [Diffraction of analytic singularities in boundary value problems of mathematical physics by the Kawai-Kashiwara and Sjöstrand methods] **86d:58117**

35B99 None of the above, but in this section

- Boccardo, L. (with Murat, F.) Remarques sur l'homogénéisation de certains problèmes quasi-linéaires. (English summary) [Remarks on the homogenization of some quasilinear problems] **86a:35022**
 Coillie, Mario (with Palmieri, Giuliana) Multiplicities of the solutions of certain problems of variational type, and applications. (Italian. English summary) (See **86m:35003**)
 Hile, G. N. (with Yeh, R. Z.) Phragmén-Lindelöf principles for solutions of elliptic differential inequalities. **86f:35037**
 Kim, Dohan Global constancy principle for Mizohata operators. **86j:35021**
 Kirichenko, N. A. Asymptotically stable solutions of certain nonlinear equations. (Russian) **86b:35018**
 Kozlov, S. M. Reducibility of quasiperiodic differential operators and averaging. (Russian) **86g:35024**
 Kravchenko, V. P. Determination of the constraints of solutions of a nonstationary continuous-discrete boundary value problem depending on the control parameter. (Russian) **86c:35023**
 Kullbanov, V. N. On the problem of identification of a class of partial differential equations. (Russian) **86a:35023**
 Lankersovich, M. Ya. A description of all second-order differential equations having functionally invariant solutions. (Russian) (See **86d:00006**)
 Li, Chao-Kon Geometrical properties of concentrated waves for nonlinear partial differential equations. (Korean. English summary) (Not in MR)
 Lu, Zhu Jia Discrete phenomena in existence in Goursat problem for equation with double characteristics. **86b:35022**
 Mhaskar, H. N. A trace theorem for caloric functions. **86k:35019**
 Murat, F. See Boccardo, L. **86a:35022**
 Palmieri, Giuliana See Coillie, Mario, (**86m:35003**)
 Roşculeţ, M. N. See Stancu, Victoria. **86g:35025**
 Stancu, Victoria (with Roşculeţ, M. N.) Integral operators that generalize differential equations. IX. Parabolic partial differential systems. Mean value formulas. (Romanian. English summary) **86g:35025**
 Watanabe, Hiroshi Path integral for some systems of partial differential equations. **86m:35019**
 Yeh, R. Z. See Hile, G. N., **86f:35037**

secondary classifications (35B99)

- Acker, A. On the geometric form of free boundaries satisfying a Bernoulli condition. **86f:35178**
 Aldashev, S. A. Properties of solutions of partial differential equations that decompose into factors with singularities. (Russian) **86c:35121**
 Allinac, S. (with Métivier, Guy) Propagation de l'analyticité des solutions d'équations nonlinéaires de type principal. [Propagation of analyticity for solutions of nonlinear equations of principal type] **86k:35003**
 (with Métivier, Guy) Propagation de l'analyticité des solutions de systèmes hyperboliques non-linéaires. [Propagation of the analyticity of solutions of nonlinear hyperbolic systems] **86f:35010**
 Altin, Abdullah (with Young, Eutiquio C.) Some properties of solutions of a class of singular partial differential equations. **86a:35026**
 Bakhtvalov, N. S. (with Panasenko, G. P.) ★ Осреднение процессов в периодических средах. (Russian) [Homogenization of processes in periodic media] **86m:73049**
 Baras, P. (with Pierre, Michel) Singularités éliminables pour des équations semi-linéaires. (English summary) [Removable singularities for semilinear equations] **86j:35063**
 Bardi, Martino Geometric properties of solutions of Hamilton-Jacobi equations. **86j:35032**
 Bensoussan, A. (with Boccardo, L.; Murat, F.) Homogenization of Bellman equations. **86k:49026**
 Birolli, M. Homogenization for variational and quasivariational inequalities. (Italian summary) **86j:49020**
 Boccardo, L. See Bensoussan, A. et al. **86k:49026**
 Chen, Gen Shun See Leung, Anthony W., **86d:52057**
 Coffman, Charles V. A nonlinear boundary value problem with many positive solutions. **86c:35055**
 Conlan, James (with Wang, Chung Lie) Higher-dimensional Gronwall-Bellman type inequalities. **86a:34025**
 Dafermos, C. M. Regularity and large time behaviour of solutions of a conservation law without convexity. **86j:35107**
 Dal Passo, Roberta (with de Mottoni, P.) On existence, uniqueness and attractivity of stationary solutions to some quasilinear parabolic systems. (See **86g:92002**)
 Dancer, E. N. Morse inequalities and estimates for the number of solutions of nonlinear equations. **86j:58022**
 Counterexamples to some conjectures on the number of solutions of nonlinear equations. **86j:35056**
 Eisenberg, Alexander The exit distributions for small random perturbations of dynamical systems with a repulsive type stationary point. **86b:60106**
 Galdenko, S. V. Exceptional sets on the boundary and uniqueness of the solution of the second and third boundary value problems for an elliptic equation. (Russian) **86g:35058**

- Glaquinta, Mariano (with Souček, Jiri) Caccioppoli's inequality and Legendre-Hadamard condition. **86j:35089**
- Gromyak, M. I. Justification of an averaging scheme for first-order hyperbolic systems. (Russian. English summary) **86a:35024**
- Hamada, Yōsaku (with Takeuchi, Akira) Le domaine d'existence et le prolongement analytique de la solution du problème de Cauchy à données singulières. [Domain of existence and analytic continuation of the solution of the Cauchy problem with singular data] **86f:35007**
- Henry, Daniel Some infinite-dimensional Morse-Smale systems defined by parabolic partial differential equations. **86m:58080**
- Hill, N. R. See Lerche, I. **86g:35037**
- Imai, Hideo Picard principle for linear elliptic differential operators. **86f:35061**
- Janušauskas, Algimantas The effect of lower-order terms on the formulation of boundary value problems for a system of first-order partial differential equations. (Russian) **86j:35031**
- Kaneta, Hitoaki Note on propagation of classical waves. I. **86i:35077**
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- Kawano, Nichiro (with Kusano, Takashi) On positive entire solutions of a class of second order semilinear elliptic systems. **86b:35063**
- Kusano, Takashi See Kawano, Nichiro. **86b:35063**
- Landis, E. M. (with Nadirashvili, N. S.) Positive solutions of second-order equations in unbounded domains. (Russian) **86g:35053**
- Laubin, P. Réfraction conique et propagation des singularités analytiques. [Conical refraction and propagation of analytic singularities] **86g:58139**
- Lebeau, G. Régularité Gevrey 3 pour la diffraction. [Gevrey regularity 3 for diffraction] **86d:58116**
- Lerche, I. (with Hill, N. R.) A mean-field solution of the reflection of a spherical acoustic wave from a rough interface. **86g:35037**
- Leung, Anthony W. (with Chen, Gen Shun) Positive solutions for temperature-dependent two-group neutron flux equations: equilibria and stabilities. **86d:82057**
- Maslov, V. P. Nonstandard characteristics in asymptotic problems. (Russian) **86b:35180**
- Maslova, N. N. (with Novikov, V. A.; Yanenko, N. N.) Some self-similar solutions for a class of equations of hydrodynamics with sign-variable viscosity. (Russian) **86f:35044**
- Mensala, Gustavo Perla (with Schonbek, Tomas) Does Huygens' principle hold for small perturbations of the wave equation? **86b:35110**
- Métivier, Guy See Alinhac, S. **86f:35010** and **86k:35003**
- Mora, Javier Comparing the phase portrait of a nonlinear parabolic equation with that of its Galerkin approximations. (See **86g:00009**)
- de Mottoni, P. See Dal Passo, Roberto. **(86g:92002)**
- Murat, F. See Bensoussan, A. et al. **86k:49026**
- Nadirashvili, N. S. See Landis, E. M. **86g:35053**
- Nirenberg, Louis Elliptic equations with critical nonlinear exponent. (Italian summary) **86m:35067**
- Noussair, Essat S. (with Swanson, C. A.) Positive solutions of semilinear elliptic problems in unbounded domains. **86b:35051**
- Novikov, V. A. See Maslova, N. N. et al. **86f:35044**
- Oleinik, O. A. On homogenization problems. **86a:49069**
- Ōshima, Toshio A definition of boundary values of solutions of partial differential equations with regular singularities. **86d:35009**
- Panasenko, G. P. See Bakhtvalov, N. S. **86m:73049**
- Pankov, A. A. Averaging and G -convergence of nonlinear elliptic operators of divergence type. (Russian) **86f:35080**
- Pierre, Michel See Baras, P. **86j:35063**
- Pisani, Raffaele (with Tucci, Maria) Multiplicity theorems for differential equations with nonlinear singular terms at the origin. (Italian. English summary) **86b:35062**
- Rabinowitz, Paul H. Minimax methods and their application to partial differential equations. **86c:58025**
- Rogova, N. V. An equation with semiregular degeneration. (Russian) **86f:35068**
- Schonbek, Tomas See Mensala, Gustavo Perla. **86b:35110**
- Smoller, Joel A. The complete solution space for a system of reaction-diffusion equations. **86b:35067**
- Soutek, Jiri See Glaquinta, Mariano. **86j:35059**
- Souganidis, Panagiotis E. Existence of viscosity solutions of Hamilton-Jacobi equations. **86i:35028**
- Stredulinsky, E. W. ★ Weighted inequalities and degenerate elliptic partial differential equations. **86f:35090**
- Swanson, C. A. See Noussair, Essat S. **86b:35051**
- Takeuchi, Akira See Hamada, Yōsaku. **86f:35007**
- Tartar, L. Étude des oscillations dans les équations aux dérivées partielles non linéaires. [Study of oscillations in nonlinear partial differential equations] **86a:35097**
- Taylor, Michael E. Airy operator calculus. **86i:35156**
- Tregub, V. L. Hölder-continuity of the solution of a problem with an irregular obstacle. (Russian) **86b:49019**
- Tucci, Maria See Pisani, Raffaele. **86b:35062**
- Véron, Laurent Singularités isotropes des solutions d'équations elliptiques non linéaires. [Isotropic singularities of solutions of nonlinear elliptic equations] **86j:35071**
- Wang, Chung Lie See Conlan, James. **86a:34025**
- Yanenko, N. N. See Maslova, N. N. et al. **86f:35044**
- Young, Eutiquio C. See Altin, Abdullah. **86a:35026**

35Cxx Representations of solutions

- Bragg, L. R. (with Dettman, J. W.) Analogous function theories for certain singular partial differential equations. **86d:35024**
- Dettman, J. W. See Bragg, L. R. **86d:35024**

secondary classifications (35Cxx)

- Bondarenko, B. A. ★ Операторные алгоритмы в дифференциальных уравнениях. (Russian) [Operator algorithms in differential equations] **86d:47001**

35C05 Solutions in closed form

- Chaudhry, Muhammed Aalam (with Pandey, J. N.) Generalized $(n+1)$ -dimensional Dirichlet boundary value problem. **86b:35019**
- Das, Sarma Application of Bessel's partial differential operators to partial differential equations. **86d:35025**
Application of Gegenbauer's partial differential operators to partial differential equations. **86d:35026**
- Dobrushkin, V. A. Analytic solution of a static boundary value problem of the plane theory of elasticity. (Russian) **86k:35020**
- Mullov, S. (with Sanginov, A.) Investigation of some systems of equations of composite type in $[n$ -dimensional] space. (Russian. Tajiki summary) **86b:35020**
- Pandey, J. N. See Chaudhry, Muhammed Aalam. **86b:35019**
- Penchanskii, S. B. A form of functionally invariant solutions of some systems of equations of mathematical physics. (Russian) **86b:35021**
- Rakhmanov, T. G. A representation of the solution of Biot's equation. (Russian) **86g:35026**
- Sanginov, A. See Mullov, S. **86b:35020**
- Watslawek, Wolfgang Wärmepolynome—Modell für besondere Lösungssysteme bei linearen partiellen Differentialgleichungen. [Heat polynomials—a model of particular solution systems for linear partial differential equations] **86d:35027**
- Ziolkowski, Richard W. Exact solutions of the wave equation with complex source locations. **86g:35027**

secondary classifications (35C05)

- Bitsadze, L. P. Fundamental boundary value problems of electroelasticity for a transversally isotropic half space. (Russian. English and Georgian summaries) (Not in MR)
- Fedosov, V. P. (with Yanenko, N. N.) Solution of mixed boundary value problems for the wave equation in domains with corners. (Russian) **86c:35083**
- Fushchich, V. I. (with Serova, M. M.) Exact solutions of certain nonlinear differential equations that are invariant with respect to the Euclidean and Galilean groups. (Russian. English summary) **86c:58157**
- Krishnan, E. V. On the exact solution of certain nonlinear dispersive wave equations. **86b:35120**
- Nikitin, A. G. Separation of variables in systems of partial differential equations, invariant with respect to the group $O(3)$. (Russian. English summary) **86d:81041**
- Serova, M. M. See Fushchich, V. I. **86c:58157**
- Sharipov, B. Some systems in total differentials that are explicitly integrable. (Russian. Tajiki summary) **86c:58005**
- Sulkhanishvili, G. I. Solution of a problem of balanced confinement of plasma in an infinite circular cylinder by means of a magnetic field. (Russian. English and Georgian summaries) **86d:76040**
- Yanenko, N. N. See Fedosov, V. P. **86c:35083**
- Zasorin, Yu. V. Exact solutions of singular equations of viscous transonic flows. (Russian) **86j:35151**

35C10 Series solutions, expansion theorems

- Bagirrov, G. A. Analytic representations of solutions of multidimensional mixed problems under boundary conditions of periodicity. (Russian. English and Azerbaijani summaries) **86b:35022**
- Bondarenko, B. A. (with Crăciunaș, P. T.; Crudu, I.; D'Ambrosio, U.; Ioniță, N.; Krall, A. M.; Mangeron, Dumitru Ion; Momanu, Gh.; Olariu, V.; Sima, P. D.) Construction des systèmes de base des solutions polynômiales pour une classe d'équations polynômiales d'ordre supérieur. [Constructing bases of polynomial solutions for a class of higher-order polynomial equations] **86b:35023**
See also Fernandes, D. L. et al. **86j:35023**
- Chebzanova, N. A. Solution of the Tricomi problem for the Lavrent'ev-Bitsadze equation by means of power series. (Russian. English summary) **86j:35022**
- Crăciunaș, P. T. See Bondarenko, B. A. et al. **86b:35023** and Fernandes, D. L. et al. **86j:35023**
- Crudu, I. See Bondarenko, B. A. et al. **86b:35023**
- D'Ambrosio, U. See Bondarenko, B. A. et al. **86b:35023**
- Fernandes, D. L. (with Crăciunaș, P. T.; Bondarenko, B. A.) Systèmes de base des solutions polynômiales concernant une classe d'équations polynômiales d'ordre supérieur aux opérateurs différents, dont certains sont les opérateurs polynômiaux. (Spanish summary) [Basic systems of polynomial solutions for a class of higher-order polynomial equations with different operators, some of which are polynomial] **86j:35023**
- Genev, V. N. Polynomial solution of a mixed boundary value problem for the Laplace equation in a simple domain bounded by a smooth analytic contour. (Russian. English and Bulgarian summaries) **86b:35023**
- Givens, Clark R. (with Lo, Chi Yeung) Series expansions of solutions of $u_{xx} + (2\nu/x)u_x + \varepsilon^2 u_{tt} = u_t$. **86b:35024**
- Ioniță, N. See Bondarenko, B. A. et al. **86b:35023**
- Kennits, Hans Polynomial expansions for solutions of the system $D_{X_i}^k U(X_1, \dots, X_r) = D_{X_i}^k U(X_1, \dots, X_r)$. **86f:35038**
- Krall, A. M. See Bondarenko, B. A. et al. **86b:35023**
- Lin, Yuan Qu Design of a microstrip line with dielectrics by the Green function method. (Chinese. English summary) **86i:35016**
- Lo, Chi Yeung See Givens, Clark R. **86b:35024**
- Mangeron, Dumitru Ion See Bondarenko, B. A. et al. **86b:35023**
- Momanu, Gh. See Bondarenko, B. A. et al. **86b:35023**
- Murray, J. C. On the boundary-value problem associated with a general twisted tube with a slowly varying circular section. **86b:35025**
- Olariu, V. See Bondarenko, B. A. et al. **86b:35023**
- Sima, P. D. See Bondarenko, B. A. et al. **86b:35023**
- Tao, L. N. Gaseous absorption in a liquid. **86i:35017**

Wataławek, Wolfgang Some remarks on expansions in terms of generalized Helmholtz polynomials. **86j:35024**

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- Ame'lovich, V. G. (with Khrustalev, A. F.) A boundary value problem for the Laplace equation. (Russian) **86f:35056**
- Belolipetskii, A. A. (with Ter-Krikorov, A. M.) Fundamental solutions of the nonlinear heat equation. (Russian) **86a:35070**
- Ebihara, Yukiyoshi See Kurose, Fumiko, **86a:35064**
- Herrera, Ismael ★ Boundary methods. **86m:35006**
- Karachun, V. Ya. See Ovsienko, V. G., **86e:55127**
- Khustalev, A. F. See Ame'lovich, V. G., **86f:35056**
- Kurose, Fumiko (with Ebihara, Yukiyoshi) On diffusion equations with moving boundary condition. **86a:35064**
- Lehngk, S. H. A generalized Jacobi theta function. **86b:33002**
- Onculescu, Ion Systèmes d'équations aux dérivées partielles analytiques dans des espaces de Banach. [Systems of analytic partial differential equations in Banach spaces] **86i:35136**
- Ovsienko, V. G. (with Karachun, V. Ya.) The interior heat problem for a sphere with given conditions for heat exchange on a surface. (Russian) **86e:55127**
- Pampu, Yu. A. Some properties of a hypergeometric function. (Russian) **86m:33002**
- Radshabov, E. L. Generalisation of the Almansi formula for homogeneous harmonic polynomials. (Russian. Tajiki summary) **86m:31001**
- Rasulov, A. B. Representation of the manifold of solutions and investigation of the Cauchy problem for some systems of differential equations of general form with a singular line. (Russian. Tajiki summary) **86k:30051**
- Siderov, A. F. Analytic representations of solutions of nonlinear parabolic equations of nonstationary filtration type. (Russian) **86m:35067**
- Temme, N. M. (with Zimmerman, J. T. F.) ★ On the theory of topographic vorticity production by tidal currents. **86f:76019**
- Ter-Krikorov, A. M. See Belolipetskii, A. A., **86a:35070**
- Vasil'eva, A. B. (with Volkov, V. T.) Periodic solutions of certain singularly perturbed equations of parabolic type. (Russian) **86h:35011**
- Volkov, V. T. See Vasil'eva, A. B., **86h:35011**
- Zimmerman, J. T. F. See Temme, N. M., **86f:76019**

35C15 Integral representations

- Efendiev, S. N. Integral representation of the solution of a boundary value problem for fourth-order hyperbolic equations. (Russian. English and Azerbaijani summaries) **86g:35028**
- Gilbert, R. P. (with Lin, Wei) Constructive methods for fourth-order elliptic equations. **86f:35039**
- Goldstein, J. A. Remarks on the Feynman-Kac formula. **86f:35040**
- Kim, Jongsik Integral representations of solutions of certain linear partial differential equations. **86d:35028**
- Kvedaras, Bronius Solution of a strongly degenerate elliptic equation by means of Laplace integrals. (Russian. English and Lithuanian summaries) **86g:35029**
- Lanckau, E. Solving of linear partial differential equations by using complex integral transforms. (See **86h:30001a**)
- Lin, Wei See Gilbert, R. P., **86f:35039**
- Lozier, Casalew On some boundary value problem for the equation $\Delta u(X) - c^2(X) = 0$. **86d:35029**
- Olinov, A. G. Integral representation and a problem of Cauchy type for a model second-order hyperbolic equation with two singular hyperplanes. (Russian. Tajiki summary) **86h:35034**
- Radshabov, N. R. A method for representation of a manifold of solutions of a general second-order linear hyperbolic equation with regular and singular coefficients in the plane. (Russian. Tajiki summary) **86h:35025a**
- Integral representations and boundary value problems for some hyperbolic equations with one and two singular lines. (Russian) **86h:35025b**
- Saitoh, Seburou Some isometrical identities in the wave equation. **86c:35019**
- Shil'net, V. A. Integral representation of functionally invariant solutions. (Russian) **86j:35025**
- Shkhanukov, M. Kh. Investigation of boundary value problems for a class of third-order equations by the Riemann function method. (Russian. English and Georgian summaries) **86j:35026**
- Tomantschger, Kurt Walter On the transformation of Bergman kernels. **86i:35018**

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- Bogges, A. (with Shaw, M.-C.) A kernel approach to the local solvability of the tangential Cauchy Riemann equations. **86g:32028**
- Chantladze, T. L. See Kandelaki, N. P. et al., **86e:78015**
- Filar, Maria Boundary value problems for the Helmholtz equation in a rectangular polyhedral angle of the Euclidean n -space. **86c:35036**
- Grabarska, Halina Integral operators for systems of parabolic equations. **86c:35070**
- Kandelaki, N. P. (with Machavariani, I. D.; Ugulava, D. K.; Chantladze, T. L.) Investigation of the Kirchhoff integral by integrals of Gilbert type. (Russian) **86e:78015**
- Karachun, V. Ya. See Ovsienko, V. G., **86e:55127**
- Li, Ming Zhong Hausdorff solvability of the Dirichlet problem for a second-order elliptic system on a multiconnected region. (Chinese. English summary) **86b:35048**
- Machavariani, I. D. See Kandelaki, N. P. et al., **86e:78015**
- Mamedov, Yu. A. (with Namazov, V. M.) Solution of a one-dimensional Cauchy problem for a second-order parabolic system with discontinuous coefficients. (Russian) **86b:35079**
- Marchenko, V. V. (with Nosov, V. A.) The Dirichlet problem for an equation of elliptic-hyperbolic type in an unbounded domain. II. (Russian) **86i:35103**
- Motoo, Minoru An analogue to the stochastic integral for $\partial/\partial t = -\Delta^2$. **86h:35136**

Namozov, V. M. See Mamedov, Yu. A., **86b:35079**

- Nieto-Vesperinas, Manuel On the representation of two-dimensional scalar wave fields in the complex plane. **86c:35037**
- Nozov, V. A. See Marchenko, V. V., **86i:35103**
- Ovsienko, V. G. (with Karachun, V. Ya.) The interior heat problem for a sphere with given conditions for heat exchange on a surface. (Russian) **86e:55127**
- Pham, Frédéric Transformées de Laplace des microsolutions de systèmes holonomes. [Laplace transforms of the micro-solutions of holonomic systems] **86d:58112**
- Pügel, Jürgen ★ Lösungsdarstellungen für partielle Differentialgleichungen in Differentialringen. (German) [Representations of solutions for partial differential equations in differential rings] **86g:35043**
- Purvint, Ojars A boundary value problem for a degenerate elliptic system. (Russian. English and Lithuanian summaries) **86m:35072**
- Qu, Chao Chun Operations of variable type and singular partial differential equations. (Chinese) **86f:35130**
- Shaw, M.-C. See Bogges, A., **86g:32028**
- Tarasov, V. G. See Tarasova, L. G., **86b:35121**
- Tarasova, L. G. (with Tarasov, V. G.) Integration of a linear hyperbolic system of differential equations by the inverse problem method. (Russian. English summary) **86b:35121**
- Ugulava, D. K. See Kandelaki, N. P. et al., **86e:78015**
- Zhumabekov, L. A boundary value problem for a parabolic equation in an angular domain. Determination of the integral representation of a solution. (Russian. Kazakh summary) **86h:35059**

35C20 Asymptotic expansions

- Barashkov, A. S. Regular expansion of solutions of singularly perturbed equations. (Russian) **86m:35020**
- Beresovskii, A. A. (with Boguslavskii, A. S.) Asymptotic integration of a nonlinear boundary value problem of heat propagation in the direction of increasing ocean depth. (Russian) **86g:35030**
- Bishanova, G. I. See Kim, E. I. et al., **86m:35022**
- Bobodshinov, A. A. See Lomov, S. A., **86m:35023**
- Boguslavskii, A. S. See Beresovskii, A. A., **86g:35030**
- Butusov, V. F. (with Nikitin, A. G.) A singularly perturbed elliptic boundary value problem in a rectangle in the critical case. (Russian) **86c:35020**
- Chikwende, S. C. Multiple-scale solution of weakly nonlinear elliptic equations on the upper half-plane. **86c:35024**
- Eleonaki, V. M. (with Kulagin, N. E.; Novozhilova, N. S.; Silin, V. P.) The method of asymptotic expansions and qualitative analysis of finite-dimensional models in nonlinear field theory. (Russian. English summary) **86f:35041**
- Georgiev, P. G. See Spasov, A. Ya., **86c:35021**
- Gorman, Arthur D. On the asymptotic series solution of some higher order linear differential equations at turning points. **86m:35021**
- Gronyak, M. I. Justification of an averaging scheme for first-order hyperbolic systems. (Russian. English summary) **86a:35024**
- Hoàng Văn Đà Construction of asymptotic solutions of a higher-order partial differential equation with two space variables. (Russian) **86j:35027**
- I'in, O. A. See Kasymov, K. A., **86g:35031**
- Kabat'ii, N. M. (with Laver, A. G.; Markush, I. I.; Prilepin, N. N.) Asymptotic representation of solutions of singularly perturbed mixed problems for second-order linear and quasilinear parabolic equations. (Russian) **86k:35021**
- Kalyakin, L. A. Construction of the asymptotics of the solution of a degenerate parabolic equation with a small parameter. (Russian) **86j:35028**
- Kasymov, K. A. (with I'in, O. A.) Asymptotics of the solution of a mixed problem with initial jump for an equation of hyperbolic type with a small parameter multiplying the highest derivative. (Russian. Kazakh summary) **86g:35031**
- Kasakevich, E. I. Asymptotic integration of a Cauchy problem. (Russian. English and Lithuanian summaries) **86g:35032**
- Kharin, S. N. See Kim, E. I. et al., **86m:35022**
- Kim, E. I. (with Kharin, S. N.; Bishanova, G. I.) Asymptotic solution of the Stefan problem for small time values. (Russian. Kazakh summary) **86m:35022**
- Kulagin, N. E. See Eleonaki, V. M. et al., **86f:35041**
- Laver, A. G. See Kabat'ii, N. M. et al., **86k:35021**
- Lomov, S. A. (with Bobodshinov, A. A.) Asymptotic integration of problems with multiple points of the spectrum. (Russian) **86m:35023**
- Markush, I. I. See Kabat'ii, N. M. et al., **86k:35021**
- Nikitin, A. G. See Butusov, V. F., **86c:35020**
- Novozhilova, N. S. See Eleonaki, V. M. et al., **86f:35041**
- Prilepin, N. N. See Kabat'ii, N. M. et al., **86k:35021**
- Proka, D. V. Asymptotic behavior of solutions of exterior mixed problems for the heat equation. (Russian) **86k:35022**
- Shafgardanov, Yu. Z. Asymptotic expansion of the solution of the Dirichlet problem for an elliptic equation with a small parameter. (Russian) **86f:35042**
- Silin, V. P. See Eleonaki, V. M. et al., **86f:35041**
- Skaska, V. V. Asymptotic expansion as $t \rightarrow \infty$ of solutions of exterior mixed problems for the S. L. Sobolev equation. (Russian) **86g:35033**
- Soboleva, E. S. Asymptotic expansion of the solution of a boundary value problem for a biharmonic equation with a small parameter. (Russian) **86g:35034**
- Sotnickenko, N. A. (with Yakovets, V. P.) Asymptotic representation of solutions of linear systems of partial differential equations with slowly changing coefficients. (Russian) **86c:35025**
- Spasov, A. Ya. (with Georgiev, P. G.) Perturbation of nonlinear waves. **86c:35021**
- Staras, Arūnas Asymptotic solution of certain weakly nonlinear wave equations. (Russian. English and Lithuanian summaries) **86a:35025**
- Teimbal, V. M. Approximate solution of a mixed problem for a third-order equation. (Russian) **86c:35026**
- Vakulenko, S. A. Construction of asymptotic solutions for weakly nonlinear Hamiltonian systems. (Russian. English summary) **86c:35022**

Yakovets, V. P. Asymptotic integration of a linear system in the case of multiple roots of the characteristic equation. (Russian. English summary) **86g:35035**
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- Akperova, O. A. (with Makhmudov, M. D.) Asymptotic behavior of the solution of a boundary value problem for the generalized biharmonic equation in an infinite narrow strip. (Russian. English and Azerbaijani summaries) **86b:35043**
- Bakhvalov, N. S. (with Panasenko, G. P.) ★ Осреднение процессов в периодических средах. (Russian) [Homogenization of processes in periodic media] **86m:73049**
- Bobylev, A. V. (with Potapenko, I. F.) Asymptotic solutions of kinetic equations of Landau type. (Russian) **86m:82032**
- Borovikov, V. A. (with Popov, A. V.) Short-wave modes for wave ducts in quasistratified media. **86b:78044**
- Brumer, Paul. See Jaffé, Charles, **86f:81043**
- Fischer, Thomas M. (with Hsiao, George C.; Wendland, W. L.) Singular perturbations for the exterior three-dimensional slow viscous flow problem. **86j:76022**
- Gao, Ru Xi. Singular perturbations for quasilinear hyperbolic equations. **86b:35009**
- Singular perturbations of the Cauchy problem for second-order quasilinear hyperbolic equations. (Chinese) **86h:35012**
- Gingold, H. Problems of mathematical physics which depend on a parameter and Jacobi series. **86i:35011**
- Halao, George C. See Fischer, Thomas M. et al., **86j:76022**
- Ilin, A. M. (with Lelkova, E. F.) Asymptotics of the solutions of certain higher-order elliptic equations in conical domains. (Russian) **86b:35046**
- Jaffé, Charles (with Brumer, Paul) Classical-quantum correspondence in the distribution dynamics of integrable systems. **86f:81043**
- Jiang, Fu Ru. The boundary value problems for quasilinear higher-order elliptic equations with a small parameter. **86i:35046**
- Kevorkian, J. (with Li, H. K.) Resonant modal interactions and adiabatic invariance for a nonlinear wave equation in a variable domain. **86a:35093**
- Krylov, A. V. Asymptotic integration of first-order hyperbolic systems. (Russian. English and Lithuanian summaries) **86g:35119**
- Lelkova, E. F. See Ilin, A. M., **86b:35046**
- Lemarchand, H. Asymptotic solution of the master equation for a general reaction-diffusion system near a symmetry-breaking transition. **86g:35176**
- Li, H. K. See Kevorkian, J., **86a:35093**
- Majima, Hideyuki ★ Asymptotic analysis for integrable connections with irregular singular points. **86e:58004**
- Makhmudov, M. D. See Akperova, O. A., **86b:35043**
- Markowich, Peter A. Singular perturbation analysis of the fundamental semiconductor device equations. **86e:78024**
- Maryanyan, S. M. See Sabashev, M. M., **86f:35022**
- Maslov, V. P. Nonstandard characteristics in asymptotic problems. (Russian) **86b:35180**
- Mas'ya, V. G. (with Nazarov, S. A.; Plamenevskii, B. A.) The Dirichlet problem in domains with thin cross connections. (Russian) **86f:35058**
- Mosolin, S. V. The closeness of solutions of the initial and the averaged problem of electrodynamics and viscoelasticity. (Russian) **86h:35121**
- Murata, Minoru. Large time asymptotics for fundamental solutions of diffusion equations. **86m:35079**
- Nazarov, S. A. (with Pileckas, Konstantinas) Asymptotic behavior of the solution of the nonlinear Dirichlet problem, with a strong singularity near a corner point. (Russian) **86g:35021**
- See also Mas'ya, V. G. et al., **86f:35058**
- Nesenenko, G. A. (with Tyurin, Yu. N.) Ray asymptotic behavior of the Green function of the heat equation with small parameter. (Russian) **86j:35019**
- Nesterova, T. N. Solution of a parabolic equation with a small parameter in a rectangle. (Russian) **86m:35080**
- Nguyễn Văn Gia. Two-dimensional boundary value problem of the diffusion. **86k:35070**
- Niiseki, Syōsō. On the Cauchy problem for Volterra-Lotka's competition equations with migration effect and its travelling wave like solutions. **86b:35096**
- Panasenko, G. P. See Bakhvalov, N. S., **86m:73049**
- Pileckas, Konstantinas. See Nazarov, S. A., **86g:35021**
- Plamenevskii, B. A. See Mas'ya, V. G. et al., **86f:35058**
- Popov, A. V. See Borovikov, V. A., **86b:78044**
- Potapenko, I. F. See Bobylev, A. V., **86m:82032**
- Sabashev, M. M. (with Maryanyan, S. M.) The asymptotic behavior of the solution of a boundary value problem for a quasilinear elliptic equation. (Russian) **86f:35022**
- Skaska, V. V. Asymptotic behavior as $t \rightarrow \infty$ of solutions of a problem of mathematical physics. (Russian) **86f:35169**
- Tahara, Hidetoshi. Singular hyperbolic systems. V. Asymptotic expansions for Fuchsian hyperbolic partial differential equations. **86f:35116**
- Tyurin, Yu. N. See Nesenenko, G. A., **86j:35019**
- Ulin, V. V. A global analogue of the method of Maslov's canonical operator. (Russian. English summary) **86e:58139**
- Complex space-time ray asymptotics for a system of first-order pseudodifferential equations with multiple characteristics. (Russian. English summary) **86g:35219**
- Wendland, W. L. See Fischer, Thomas M. et al., **86j:76022**
- Widom, Harold. A spectral asymptotic expansion for pseudodifferential operators. **86e:35114**

35C99 None of the above, but in this section

- Akhromeeva, T. S. (with Malinetskii, G. G.) Symmetric solutions of the Kuramoto-Tsuzuki equation. (Russian) **86k:35023**
- Altin, Abdullah (with Young, Eutiquio C.) Some properties of solutions of a class of singular partial differential equations. **86a:35026**
- Babiu, A. V. Polynomial solvability of differential equations with coefficients from classes of infinitely differentiable functions. (Russian) **86j:35029**

- Boltsun, S. A. See Kovach, Yu. I., **86f:35043**
- Burridge, Robert. The group of motions in the plane and separation of variables in cylindrical coordinates. **86m:35024**
- Clements, David L. (with Rogers, Colin) On the general solution of a linear second order equation with variable coefficients. **86b:35026**
- Davis, G. B. A Laplace transform technique for the analytical solution of a diffusion-convection equation over a finite domain. **86k:35024**
- Demchenko, V. V. (with Markin, V. D.) A family of exact solutions of the multidimensional nonlinear heat equation. (Russian) **86g:35036**
- Fatykhov, M. A. (with Smirnov, G. P.) On the solution of a problem of heat conduction. (Russian) **86a:35027**
- Freiberg, A. Yu. See Mel'nikova, I. V., **86k:35025**
- Fruth, Manfred. Liesche Ringe über dem Körper der auf einem Gebiet G des Raumes C^n meromorphen Funktionen. [Lie rings over the field of functions that are meromorphic on a domain G of the space C^n] **86h:35026**
- Zur Lösung des Cauchyschen Anfangswertproblems einer Klasse Monge-Ampèrescher Differentialgleichungen mit Vorintegralen und Lie-Reihen. [On the solution of the Cauchy initial value problem of a class of Monge-Ampère differential equations by means of first integrals and Lie series] **86h:35027**
- Genev, V. N. Some a priori estimates in calculation of generalized solutions of boundary value problems. (Bulgarian. English and Russian summaries) **86e:35027**
- Hill, N. R. See Lerche, I., **86g:35037**
- Kalnina, E. G. (with Miller, Willard, Jr.) Differential-Stäckel matrices. **86i:35019**
- (with Miller, Willard, Jr.) Generalized Stäckel matrices. **86m:35025**
- Khoma, I. Yu. The fundamental matrix of solutions of a system of partial differential equations. (Russian) **86m:35026**
- Kovach, Yu. I. (with Boltsun, S. A.) On the question of the generalized Goursat problem for a nonlinear differential equation. (Russian) **86f:35043**
- Lenyuk, M. P. Fourier integral transformations for piecewise homogeneous unbounded and semibounded media. (Russian) **86j:35030**
- Lerche, I. (with Hill, N. R.) A mean-field solution of the reflection of a spherical acoustic wave from a rough interface. **86g:35037**
- Malinetskii, G. G. See Akhromeeva, T. S., **86k:35023**
- Markin, V. D. See Demchenko, V. V., **86g:35036**
- Maslova, N. N. (with Novikov, V. A.; Yanenko, N. N.) Some self-similar solutions for a class of equations of hydrodynamics with sign-variable viscosity. (Russian) **86f:35044**
- Mel'nikova, I. V. (with Freiberg, A. Yu.) Regularization of a boundary value problem for an oscillation equation. (Russian) **86k:35025**
- Mikhailov, L. G. Formulas for the representation of solutions of some systems of partial differential equations with several independent variables. (Russian) **86a:35028**
- Formulas for the representation of solutions of certain noncanonical second-order complex partial differential equations. (Russian. Tajiki summary) **86e:35028**
- Miller, Willard, Jr. See Kalnina, E. G., **86i:35019** and **86m:35025**
- Novikov, V. A. See Maslova, N. N. et al., **86f:35044**
- Rogers, Colin. See Clements, David L., **86b:35026**
- Smirnov, G. P. See Fatykhov, M. A., **86a:35027**
- Yanenko, N. N. See Maslova, N. N. et al., **86f:35044**
- Young, Eutiquio C. See Altin, Abdullah, **86a:35026**

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- Aguilera M., José C. An existence and uniqueness theorem for partial differential equations of parabolic or hyperbolic type. (Spanish. English summary) **86j:35003**
- Ahlbrandt, Calvin D. (with Hinton, Don; Lewis, Roger T.) Inversion in the unit sphere for powers of the Laplacian. **86b:35003**
- Akkas, N. The residual variable method and its applications. **86m:76068**
- Aronasajin, Nachman (with Creese, Thomas M.; Lipkin, Leonard J.) ★ Polyharmonic functions. **86g:31001**
- Ashmyanskii, V. V. Boundary value problems for an eight-dimensional analogue of the Cauchy-Riemann system. (Russian) **86b:35047**
- Basak, Shankar. See Roy Chowdhury, A., **86h:35124**
- Bauder, A. See Zivl, H. S. et al., **86m:81171**
- Berezkina, N. S. The relation between third-order systems without moving critical points and nonlinear partial differential equations. (Russian) **86c:34019**
- Berger, Marc Aron (with Sloan, Alan D.) Product formulas for solutions of initial value partial differential equations. I. **86h:35028**
- Bitsadze, A. V. A class of exact solutions of the Lorentz-covariance equations. (Russian) **86d:35080**
- Bitsadze, D. G. See Khatiasvili, G. M., **86c:73007**
- Canak, M. Das Cauchysche Problem für die Grundgleichung der Oszillationstheorie und die Randwertaufgabe von Riemann für die analytischen Funktionen. [The Cauchy problem for the basic equation of oscillation theory and the Riemann boundary value problem for analytic functions] **86d:35079**
- Carl, S. Näherungslösungen gemischter Probleme bei partiellen Differentialgleichungen durch partielle Umkehrung der Differentialoperatoren. [Approximate solutions of mixed problems for partial differential equations, by means of partial inversion of the differential operators] **86m:35007**
- Creese, Thomas M. See Aronasajin, Nachman et al., **86g:31001**
- Denisov, A. A. Asymptotic solutions of the whispering gallery type of the nonstationary Schrödinger equation. (Russian. English summary) **86f:81019**
- Dopierala, Zenon (with Rempulska, Lucyna) Application of the Abel means of trigonometric Fourier series for differential equations of the Laplace type. **86g:42011**
- Drogovos, A. M. Synthesis of parameters for some continuous-discrete systems. (Russian) **86c:93044**
- Duduković, M. P. See Milla, P. L., **86j:45015**
- Dahuraev, A. D. Complex methods in the theory of boundary value problems with respect to systems of partial differential equations of composed type. (See **86h:30001a**)
- Enofskii, V. Z. Solutions in elliptic functions of integrable nonlinear equations connected with two-zone Lamé potentials. (Russian) **86c:35134**
- Exton, Harold. Hypergeometric partial differential systems of the third order. **86f:33005**

- Felsulaev, N. A. Solution of a mixed problem with reverse time flow for a parabolic equation. (Russian. English and Azerbaijani summaries) **86c:35065**
- Florian, H. (with Heersink, Rudolf) Differential operators in the theory of elliptic equations and boundary value problems. (See **86h:30001a**)
- Frensen, C. L. (with Kevorkian, J.) A review of the multiple scale and reductive perturbation methods for deriving uncoupled nonlinear evolution equations. **86m:76015**
- Galaktionov, V. A. (with Kurdyumov, S. P.; Samarskii, A. A.) Approximate self-similar solutions of a class of quasilinear heat equations with a source. (Russian) **86b:35087**
- Gallatin, A. S. Construction of solutions of some inhomogeneous problems for a diffusion equation with fading memory. (Russian) **86a:35073**
- (Gerlach, E.) See Aronessajn, Nachman et al., **86g:31001**
- Gil', M. I. ★ Операторные функции, дифференциальные уравнения и динамика систем. (Russian) [Operator functions, differential equations and the dynamics of systems] **86g:34099**
- Gogolauri, L. A. Solution of some boundary value problems for the generalized potential vector. (Russian. English and Georgian summaries) **86d:30067**
- Goman, O. G. Representations of the general solution of equations of nonaxisymmetric motion of a viscous incompressible fluid by means of p -analytic functions. (Russian. English summary) **86a:76021**
- Gromyak, M. I. See Khoma, G. P., **86c:35102**
- Günthard, Hs. H. See Zivi, H. S. et al., **86m:81171**
- Handy, Carlos R. Lattice multiscale singular perturbation theory. **86j:35136**
- Heersink, Rudolf See Florian, H., (**86h:30001a**)
- Hinton, Don See Ahlbrandt, Calvin D. et al., **86b:35003**
- Ivanov, I. A. See Kipriyanov, I. A., **86c:35023**
- Jiang, Pu Ru On the asymptotic solutions for a class of nonlinear reduced wave equations. **86b:35051**
- Kamran, N. (with McLenaghan, R. G.) Separation of variables and symmetry operators for the conformally invariant Klein-Gordon equation on curved spacetime. **86i:53019**
- Kevorkian, J. See Frensen, C. L., **86m:76015**
- Khatlashvili, G. M. (with Bitsadze, D. G.) Convergence of the iteration process in the biharmonic problem for an ellipse. (Russian) **86c:73007**
- Khe Kan Cher Some solutions for a class of degenerate equations. (Russian) **86k:33017**
- Khoma, G. P. (with Gromyak, M. I.) Asymptotic investigation of wave solutions of partial differential equations. (Russian) **86c:35102**
- Kipriyanov, I. A. (with Ivanov, I. A.) The obtaining of fundamental solutions for homogeneous equations with singularities with respect to several variables. (Russian) **86c:35023**
- Klaus, Martin (with van der Mee, C. V. M.; Protopopescu, V.) Solutions des problèmes Sturm-Liouville indéfinis dans un demi-espace. (English summary) [Half-range solutions of indefinite Sturm-Liouville problems] **86j:35083**
- Kocic, Vlatko Ij. Linearization of nonlinear differential equations. IV. Nonlinear second-order partial differential equations equivalent to linear base equation. **86g:34009**
- Kuptsov, L. P. A class of means for solutions of the heat equation. (Russian) **86g:35088**
- Kurdyumov, S. P. See Galaktionov, V. A. et al., **86b:35087**
- Lavery, John E. Solution of quasilinear two-point boundary value problems by the method of pseudolinear equations. **86c:34035**
- Leichtnam, Éric Construction de solutions singulières pour des équations aux dérivées partielles non linéaires. (English summary) [Construction of singular solutions for nonlinear partial differential equations] **86c:35005**
- Lewis, Roger T. See Ahlbrandt, Calvin D. et al., **86b:35003**
- Lipkin, Leonard J. See Aronessajn, Nachman et al., **86g:31001**
- Looser, François Exponent d'Arnold et sections planes. (English summary) [Arnold's exponent and plane sections] **86a:32020**
- MacCamy, Richard C. (with Stephan, Ernst) Solution procedures for three-dimensional eddy current problems. **86a:78015**
- Majima, Hideyuki Riemann-Hilbert-Birkhoff problem for integrable connections with irregular singular points. **86g:58003**
- Marchuk, N. G. A method for reducing the wave equation to a system of first-order equations. (Russian) **86c:35093**
- Marinets, T. I. See Marinets, V. V., **86a:35006**
- Marinets, V. V. (with Marinets, T. I.) A modification of the two-sided method of approximate integration of differential equations of implicit form. (Russian) **86a:35006**
- Martensen, E. The Rothe method for the vibrating string containing contact discontinuities. **86a:65092**
- McLanaghan, R. G. See Kamran, N., **86i:53019**
- van der Mee, C. V. M. See Klaus, Martin et al., **86j:35083**
- Mills, P. L. (with Duduković, M. P.) A direct integral equation method for the solution of dual- or triple-series equations with applications to heat conduction and diffusion-reaction systems. **86j:45015**
- Miyakawa, Tetsuro Construction of solutions of a semilinear parabolic equation with the aid of the linear Boltzmann equation. **86c:35074**
- Okamoto, Ryoji See Suzuki, Kenji, **86a:81045**
- Ōuchi, Sunao Singular solutions of linear partial differential equations in complex domains. (Japanese) **86i:35005**
- Pal'ko, L. S. Some general representations of the solution of the equations of hydrodynamics of a viscous fluid. (Russian. English summary) **86a:76033**
- Polyanskiĭ, È. A. ★ Метод коррекции решения параболического уравнения в неоднородном волноводе. (Russian) [A method for correction of the solution of a parabolic equation in an inhomogeneous waveguide] **86k:78016**
- Protopopescu, V. See Klaus, Martin et al., **86j:35083**
- Protosenko, V. S. Formulas for re-expansion of harmonic functions in a spherical and a compressed-spheroidal coordinate system. (Russian. English summary) **86b:31017**
- (with Solov'ev, A. I.) Some relations between solutions of Lamé equations in Cartesian, parabolic and elliptic coordinates. (Russian. English summary) **86k:33011**
- Pu, De Qian Functions of doubly complex variables. I. (Chinese) **86g:30063**
- Radshabov, N. R. A method of representing a manifold of solutions of certain second-order linear elliptic equations on the plane. (Russian. Tajiki summary) **86c:35039**
- Rempulaks, Lucyna See Dopierala, Zenon, **86g:42011**
- Roach, G. F. Boundary integral equation methods for elliptic boundary value problems. **86m:35039**
- Rogers, Collin (with Sawatsky, R.) Heat conduction in an inhomogeneous half-space subject to a nonlinear boundary condition. Application of Bergman-type series. **86a:80004**
- Roy Chowdhury, A. (with Basak, Shankar) On the complete solution of the Hirota-Satsuma system through the "dressing" operator technique. **86h:35124**
- Samarskii, A. A. See Galaktionov, V. A. et al., **86b:35087**
- Sawatsky, R. See Rogers, Collin, **86a:80004**
- Shpil'ker, G. L. Structure and reconstruction of hypercomplex wave fields. (Russian) **86b:35201**
- Sil'gatullin, N. R. Construction of the general solution of a system of Einstein-Maxwell equations for the stationary axisymmetric case. (Russian) **86a:83017**
- Sloan, Alan D. See Berger, Marc Aron, **86b:35028**
- Sobolev, V. A. See Strygin, V. V., **86g:34062**
- Solov'ev, A. I. See Protosenko, V. S., **86b:31017**
- Stephan, Ernst See MacCamy, Richard C., **86a:78015**
- Strygin, V. V. (with Sobolev, V. A.) ★ Интегральные многообразия и разделение движений. (Russian) [Integral manifolds and separation of motions] **86g:34062**
- Styer, Daniel F. Partial differential approximants for multivariable power series. III. Enumeration of invariance transformations. **86j:41013**
- Suzuki, Kenji (with Okamoto, Ryoji) Perturbation theory for quasidegenerate system in quantum mechanics. **86a:81045**
- Takati, Djurdjica The approximate solution of a differential equation in many steps. (Serbo-Croatian summary) **86f:35014**
- Zivi, H. S. (with Bauder, A.; Günthard, Hs. H.) Complete dynamics of a two-level quantum system in interaction with a radiation field. **86m:81171**

35Dxx Generalized solutions

secondary classifications (35Dxx)

- Kulikov, A. A. Existence and smoothness of generalized solutions of B -hypoelliptic equations. (Russian) **86c:35034**

35D05 Existence of generalized solutions

- Colombeau, J.-F. Nouvelles solutions d'équations aux dérivées partielles. (English summary) [New solutions for partial differential equations] **86i:35020**
- Kasaryan, G. G. Weak solutions of the Dirichlet problem for a quasilinear equation with lower-order terms. (Russian) **86k:35026**

secondary classifications (35D05)

- Adshalova, N. A. Investigation of the generalized solution of a multidimensional mixed problem for a class of fourth-order semilinear parabolic equations with boundary conditions of Riquier type. (Russian. English and Azerbaijani summaries) **86b:35099**
- Aliev, R. D. Generalized Poincaré (Neumann) problem for parabolic equations in nontube domains with nonsmooth boundary. (Russian. English and Azerbaijani summaries) **86m:35081**
- Barles, G. Existence results for first order Hamilton Jacobi equations. (French summary) **86c:35044**
- Chen, Hu Ting Weak solutions of mixed boundary value problems for some singular hyperbolic equations. (Chinese. English summary) **86a:35098**
- Ding, Xia Xi See Gu, Yong Geng et al., **86c:35073**
- Fattorusso, Luisa Weak solutions of the Cauchy-Dirichlet problem for parabolic systems in unbounded domains. (Italian. English summary) **86c:35071**
- Getmanskaya, S. V. Conditions for unique solvability of the Dirichlet problem for a second-order elliptic equation in divergence form. (Russian. English and Georgian summaries) **86k:35034**
- Gu, Yong Geng (with Luo, Pei Zhu; Ding, Xia Xi) Generalized solutions of strongly nonlinear parabolic equations. **86c:35073**
- Gupalo, A. S. (with Lopushanskaya, G. P.) A representation of the solution of a generalized boundary value problem for a system of differential equations that is elliptic in the sense of Petrovskii. (Russian) **86f:35073**
- Kiro, Shmuel Necessary and sufficient conditions for solvability of nonsolvable linear partial differential equations. **86i:35002**
- Kufner, Alois (with Voldrich, Josef) The Neumann problem in weighted Sobolev spaces. **86k:35038**
- Lopushanskaya, G. P. See Gupalo, A. S., **86f:35073**
- Luo, Pei Zhu See Gu, Yong Geng et al., **86c:35073**
- Mawhin, J. (with Ward, James R., Jr.) Asymptotic nonuniform nonresonance conditions in the periodic-Dirichlet problem for semilinear wave equations. **86f:35123**
- Popivanov, P. R. Microlocal properties of pseudodifferential operators with double involutive characteristics. (Russian) **86c:35006**
- Sarason, Leonard Weak and strong solutions in two dimensions. **86h:35031**
- Sokolov, A. G. Existence of generalized solutions of steady-state boundary value problems of electromagnetic hydrodynamics. (Russian) **86c:78058**
- Tomescu, Anca See Tomescu, F. M. G., **86c:35069**
- Tomescu, F. M. G. (with Tomescu, Anca) Existence of the weak solution of general mixed problems for the parabolic equation. **86c:35069**
- Tovmasyan, N. E. General boundary value problems for systems of partial differential equations in a half space in the class of generalized functions. (Russian) **86f:35053**
- Voldrich, Josef See Kufner, Alois, **86k:35038**
- Ward, James R., Jr. See Mawhin, J., **86f:35123**

35D10 Regularity of generalized solutions

Souček, Jiří Singular solutions to linear elliptic systems. **86m:35027**

secondary classifications (35D10)

Chelkak, S. I. Exact conditions for regularity of generalized solutions of fourth-order quasilinear elliptic systems. (Russian) **86i:35043**

Garroni, M. G. On bilateral evolution problems of nonvariational type. (Italian summary) **86j:35074**

Kondrat'ev, V. A. (with Oleinik, O. A.) Uniqueness theorems for solutions of exterior boundary value problems, and an analogue of Saint-Venant's principle. (Russian) **86b:35038**

Marino, Mario (with Maugeri, A.) L^p -theory and partial Hölder continuity for quasilinear parabolic systems of higher order with strictly controlled growth. (Italian summary) **86k:35061**

Maugeri, A. See Marino, Mario, **86k:35061**

Oleinik, O. A. See Kondrat'ev, V. A., **86b:35038**

Pogorelov, A. V. Regularity of generalized solutions of the equation $\det(u_{ij})\theta(\nabla u, u, x) = \varphi(x)$. (Russian) **86k:35045**

Tyshelek, V. N. Regularity of generalized solutions of higher-order quasilinear nonuniformly elliptic equations. (Russian) **86b:35057**

35D99 None of the above, but in this section

secondary classifications (35D99)

Akhmedov, Sh. A. (with Berdimuratov, A.) Continuation of generalized solutions of partial differential equations given in the neighborhood of three characteristic subspaces. (Russian. Tajiki summary) **86i:35023**

Balashova, G. S. Infinite-order equations with subordinate terms, and embedding theorems. (Russian) **86f:35054**

Berdimuratov, A. See Akhmedov, Sh. A., **86i:35023**

Bréais, H. Nonlinear elliptic equations involving measures. **86f:35084**

DiPerna, Ronald J. Measure-valued solutions to conservation laws. **86g:35121**

Liang, Xi Ting (with Wu, Zai De) The generalized solutions of nonuniformly parabolic equations. (Chinese) **86g:35089**

Masuda, Kyōya Weak solutions of Navier-Stokes equations. **86a:35117**

Rofe-Beketov, F. S. On positive differential operators (deficiency indices, factorization, perturbations). **86a:47049**

Wu, Zai De See Liang, Xi Ting, **86g:35089**

35Exx Equations and systems with constant coefficients

[See also 35N05.]

35E05 Fundamental solutions

Ivanov, L. A. See Kipriyanov, I. A., **86c:35023**

Kipriyanov, I. A. (with Ivanov, L. A.) The obtaining of fundamental solutions for homogeneous equations with singularities with respect to several variables. (Russian) **86c:35023**

Léonard, Paul Application du critère de Bros-Iagolnitzer-Sjöstrand à l'étude du "wave front set" analytique des solutions élémentaires des opérateurs hyperboliques à coefficients constants. [Application of the Bros-Iagolnitzer-Sjöstrand criterion to the study of the analytic wave front set of elementary solutions of hyperbolic operators with constant coefficients] **86b:35027**

Zampieri, Giuseppe Differential operators with constant coefficients of hyperbolic-(hypo)elliptic type. (Italian) **86m:35028**

secondary classifications (35E05)

Gutiérrez, Ángel (with de Guzmán, M.; Peral Alonso, Irene) Fundamental solutions of a certain class of hypoelliptic operators. (Spanish. English summary) **86k:35030**

de Guzmán, M. See Gutiérrez, Ángel et al., **86k:35030**

Peral Alonso, Irene See Gutiérrez, Ángel et al., **86k:35030**

Zampieri, Giuseppe Algebraic conditions on partial differential operators for existence of microlocal fundamental solutions with singularities carried by proper cones. (Italian summary) **86c:35007**

35E10 Convexity properties

de Cristoforis, Massimo Lanza Solutions with lacunas for some linear partial differential equations. (Italian. English summary) **86i:35021**

35E15 Initial value problems

Berger, Marc Aron (with Sloan, Alan D.) Product formulas for solutions of initial value partial differential equations. I. **86h:35028**

Ermatov, U. Solvability of the Cauchy problem in classes of entire functions. (Russian. Tajiki summary) **86g:35038**

Solvability of the Cauchy problem for some ill-posed systems of differential equations. (Russian. Tajiki summary) **86g:35039**

Sloan, Alan D. See Berger, Marc Aron, **86h:35028**

Umarov, S. R. On the theory of the Cauchy problem for partial differential equations on a torus. (Russian) **86c:35024**

Zampieri, Giuseppe On the bilateral boundary value problem and the existence of global Gevrey solutions of linear differential equations. (Italian summary) **86i:35022**

35E20 General theory

Akhmedov, Sh. A. (with Berdimuratov, A.) Continuation of generalized solutions of partial differential equations given in the neighborhood of three characteristic subspaces. (Russian. Tajiki summary) **86i:35023**

Berdimuratov, A. See Akhmedov, Sh. A., **86i:35023**

Jachymek, Jacek On systems of convolution equations on distributions. (Russian and Polish summaries) **86i:35024**

Mari, Daniela Existence of real analytic solutions for differential equations with constant coefficients. (Italian. English summary) **86g:35040**

McNabb, A. An uncoupling procedure for a class of coupled linear partial differential equations. **86h:35029**

Saitoh, Saburo Integral transforms by Green's function on \mathbb{R}^n . **86f:35045**

Shmyrëv, G. A. Convergence to a polynomial of the solutions of a class of equations of quasielliptic type as $|x| \rightarrow \infty$. (Russian) **86a:35029**

Zampieri, Giuseppe Analytic solvability of certain locally evolutionary operators. (Italian) **86a:35030**

Résolubilité Gevrey d'opérateurs différentiels à coefficients constants. (English summary) [Gevrey solvability of differential operators with constant coefficients] **86b:35028**

Zanghirati, Luisa Propagation of Gevrey singularities for solutions of linear differential operators with constant coefficients. **86i:35025**

secondary classifications (35E20)

Ansemil, J. M. (with Perrot, B.) C^∞ functions in infinite dimension and linear partial differential-difference equations with constant coefficients. **86a:46044**

Berenstein, C. A. (with Struppa, Daniele) Interpolation problems in cones. I. (Italian summary) **86j:32003a**

(with Struppa, Daniele) Interpolation problems in cones. II. (Italian summary) **86j:32003b**

Perrot, B. See Ansemil, J. M., **86a:46044**

Romanov, V. K. Nonlocal boundary value problems for some systems of equations. (Russian) **86k:35030**

Struppa, Daniele See Berenstein, C. A., **86j:32003a** and **86j:32003b**

Zaitsev, V. A. Weak gaps for one-dimensional strictly hyperbolic equations with constant coefficients. (Russian) **86k:35076**

35E99 None of the above, but in this section

Burskii, V. P. Remarks on the kernel of a differential operator with constant coefficients in the domain. (Russian) **86g:35041**

Il'kiv, V. S. (with Ptashnik, B. I.) A problem with nonlocal boundary conditions for systems of partial differential equations with constant coefficients. (Russian) **86i:35026**

Ptashnik, B. I. See Il'kiv, V. S., **86i:35026**

secondary classifications (35E99)

Akhmedov, Sh. A. Expansion of generalized functions of infinite order into symmetrically opposite functionals. (Russian. Tajiki summary) **86i:46043**

Avantaggiati, A. Analytic or quasi-analytic periodic solutions for differential equations with constant coefficients. (Italian) **86g:35003**

Berger, Marc Aron (with Sloan, Alan D.) An algebraic generalization of stochastic integration. **86m:35074**

Figol, V. V. A boundary value problem with approximate boundary data for a hyperbolic equation with constant coefficients. (Russian. English summary) **86g:35115**

Ibragimova, Dah. I. See Kakhramanov, A. Sh., **86g:35048**

Kakhramanov, A. Sh. (with Ibragimova, Dah. I.) Boundary value problems in a half space for equations of Sobolev type. (Russian. English and Azerbaijani summaries) **86g:35048**

Kecs, Wilhelm Sur l'existence de certaines solutions fondamentales et leur utilisation dans la mécanique du solide déformable. [On the existence of some fundamental solutions and their use in deformable solid mechanics] **86k:73024**

Lang, Harald An integral representation formula for systems of convolution equations. **86k:46061**

Napalkov, V. V. Generators in a ring of entire functions and systems of convolution equations. (Russian) **86k:32003**

Sloan, Alan D. See Berger, Marc Aron, **86m:35074**

35Fxx General first-order equations and systems

35F05 Linear equations and systems, general

Dzhuraev, A. D. Structure of the solutions of certain first-order systems. (Russian) **86g:35042**

Hanouzet, Bernard Applications bilinéaires compatibles avec un système à coefficients variables. Continuité dans les espaces de Besov. [Bilinear mappings compatible with a system of variable coefficients. Continuity in Besov spaces] **86h:35030**

Pfingel, Jürgen ★ Lösungsdarstellungen für partielle Differentialgleichungen in Differentialringen. (German) [Representations of solutions for partial differential equations in differential rings] **86g:35043**

secondary classifications (35F05)

Kim, Dohan Global constancy principle for Mizohata operators. **86j:35021**

Kim, Jongsik Integral representations of solutions of certain linear partial differential equations. **86d:35028**

Mikhailov, L. G. Formulas for the representation of solutions of some systems of partial differential equations with several independent variables. (Russian) **86a:35028**

Qiu, Qing Jiu On partial hypoellipticity of first order Fuchsian evolution operators. **86j:35040**

35F10 Initial value problems for linear equations and systems

- Arushanyan, Z. A. (with Grigoryan, B. V.) A generalization of the Rudin-Carleson theorem. (Russian. Armenian summary) **86i:35027**
- Grigoryan, B. V. See Arushanyan, Z. A., **86i:35027**
- Saint Raymond, Xavier Unité de Cauchy pour les équations aux dérivées partielles linéaires du premier ordre. (English summary) [Uniqueness in the Cauchy problem for first-order linear pde's] **86c:35029**

secondary classifications (35F10)

- Blow, K. J. (with Doran, N. J.) Multiple dark soliton solutions of the nonlinear Schrödinger equation. **86b:78005**
- Doran, N. J. See Blow, K. J., **86b:78005**
- Helffler, B. ★ Théorie spectrale pour des opérateurs globalement elliptiques. (French) [Spectral theory for globally elliptic operators] **86d:35151**
- Mullover, S. A four-dimensional system of composite type. (Russian. Tajiki summary) **86j:35115**
- Saint Raymond, Xavier Autour du théorème de Holmgren sur l'unicité de Cauchy. [Concerning Holmgren's theorem on Cauchy uniqueness] **86c:35029**
- Astérisque See Helffler, B., **86d:35151**

35F15 Boundary value problems for linear equations and systems

- Boyarkin, D. I. Estimates for solutions of some nonelliptic boundary value problems. (Russian. English summary) (See **86g:34001**)
- Januskauskas, Algimantas The effect of lower-order terms on the formulation of boundary value problems for a system of first-order partial differential equations. (Russian) **86j:35031**
- Kapitanik, L. V. (with Pileckas, Konstantinas) Some problems of vector analysis. (Russian. English summary) **86c:35025**
- Pileckas, Konstantinas See Kapitanik, L. V., **86c:35025**
- Sarason, Leonard Weak and strong solutions in two dimensions. **86h:35031**
- Shukurov, Kh. R. Boundary value problems for a degenerate system of first-order equations. (Russian) **86m:35029**

secondary classifications (35F15)

- Ashmyanskii, V. V. Boundary value problems for an eight-dimensional analogue of the Cauchy-Riemann system. (Russian) **86b:35047**
- Safarov, D. Kh. Systems of first-order partial differential equations of composite type. (Russian) **86g:35136**

35F20 Nonlinear equations and systems, general

- Bardi, Martino Geometric properties of solutions of Hamilton-Jacobi equations. **86j:35033**
- Barles, G. Existence results for first order Hamilton Jacobi equations. (French summary) **86g:35044**
- Remarques sur des résultats d'existence pour les équations de Hamilton-Jacobi du premier ordre. (English summary) [Remarks on some existence results for first-order Hamilton-Jacobi equations] **86f:35046**
- Crandall, Michael G. (with Souganidis, Panagiotis E.) Developments in the theory of nonlinear first-order partial differential equations. **86j:35033**
- (with Evans, L. C.; Lions, Pierre-Louis) Some properties of viscosity solutions of Hamilton-Jacobi equations. **86a:35031**
- (with Newcomb, Richard) Viscosity solutions of Hamilton-Jacobi equations at the boundary. **86f:35047**
- Evans, L. C. (with Ishii, Hitoshi) Differential games and nonlinear first order PDE on bounded domains. **86f:35048**
- See also Crandall, Michael G. et al., **86a:35031**
- Ishii, Hitoshi See Evans, L. C., **86f:35048**
- Lions, Pierre-Louis See Crandall, Michael G. et al., **86a:35031**
- Newcomb, Richard See Crandall, Michael G., **86f:35047**
- Sergienko, L. N. Solution of the Cauchy problem of constructing an integral hypersurface of a first-order partial differential equation. (Russian) **86k:35027**
- Souganidis, Panagiotis E. Existence of viscosity solutions of Hamilton-Jacobi equations. **86i:35028**
- Approximation schemes for viscosity solutions of Hamilton-Jacobi equations. **86k:35028**
- Max-min representations and product formulas for the viscosity solutions of Hamilton-Jacobi equations with applications to differential games. **86f:35049**
- See also Crandall, Michael G., **86j:35033**

secondary classifications (35F20)

- Barbu, Viorel Global existence for Hamilton-Jacobi equation in Hilbert space. **86c:35143**
- Barles, G. Quasivariational inequalities and first-order Hamilton-Jacobi equations. **86f:40022**
- Crandall, Michael G. (with Lions, Pierre-Louis) Two approximations of solutions of Hamilton-Jacobi equations. **86j:65121**
- (with Lions, Pierre-Louis) Hamilton-Jacobi equations in infinite dimensions. I. Uniqueness of viscosity solutions. **86j:35154**
- Evans, L. C. (with Souganidis, Panagiotis E.) Differential games and representation formulas for solutions of Hamilton-Jacobi-Isaacs equations. **86d:90185**
- (with Ishii, Hitoshi) A PDE approach to some asymptotic problems concerning random differential equations with small noise intensities. (French summary) **86f:35183**
- Ishii, Hitoshi See Evans, L. C., **86f:35183**
- Januškauskas, Algimantas Mappings harmonic in the sense of M. A. Lavrent'ev. (Russian) **86b:30073**

- Kobayashi, Yoshikazu A product formula approach to first order quasilinear equations. **86k:35085**
- Lê Hong So'n Extension of the solution to the system of partial differential equations of several complex variables. **86b:33016**
- Lions, Pierre-Louis Optimal control and viscosity solutions. **86k:49027**
- See also Crandall, Michael G., **86j:35154** and **86j:65121**
- Mirick, St. A generalization of Cauchy's method of characteristics. **86b:35006**
- Souganidis, Panagiotis E. See Evans, L. C., **86d:90185**

35F25 Initial value problems for nonlinear equations and systems

- Baouendi, M. S. (with Goulaouic, C.; Trèves, F.) Uniqueness in certain first-order nonlinear complex Cauchy problems. **86g:35045**
- Goulaouic, C. See Baouendi, M. S. et al., **86g:35045**
- Li, Yun Conditions for a first-order quasilinear nonhomogeneous partial differential equation to have a smooth global solution. (Chinese. English summary) **86j:35034**
- Trèves, F. See Baouendi, M. S. et al., **86g:35045**

secondary classifications (35F25)

- Hounie, Jorge Global Cauchy problems modulo flat functions. **86c:35158**
- Saint Raymond, Xavier Non-unicité pour certains problèmes de Cauchy complexes non linéaires du premier ordre. (English summary) [Nonuniqueness in certain first-order nonlinear complex Cauchy problems] **86m:35004**
- Zheng, Yong Shu A note on Dafermos' polygonal approximation method. (Chinese. English summary) **86b:65113**

35F30 Boundary value problems for nonlinear equations and systems

- Cho, Yong Ho The inverse mixed boundary value problem for a system of first order equations. (Korean. English summary) **86i:35029**
- Mandshavidze, G. F. (with Tutshka, Wolfgang) Boundary value problems for nonlinear systems of differential equations in the plane. (Russian. English and Georgian summaries) **86d:35030**
- Rüprich, Wolfgang Eine Lösungsmethode für das Randwert-Sprung-Problem für implizite partielle Differentialgleichungssysteme in der Ebene. [A solution method for the boundary value jump problem for systems of implicit partial differential equations in the plane] **86g:35046**
- Tutshka, Wolfgang See Mandshavidze, G. F., **86d:35030**

secondary classifications (35F30)

- Klink, H.-K. Über komplexe Methoden in der Kontrolltheorie: Randgesteuerte Probleme. [On complex methods in control theory: boundary-controlled problems] **86g:49033**

35F99 None of the above, but in this section

- Hounie, Jorge A note on global solvability of vector fields. **86h:35032**
- Zubov, S. V. Analytic form of a family of solutions of a system of partial differential equations. (Russian. English summary) (See **86g:34001**)

secondary classifications (35F99)

- Airault, Hélène Étude des conditions d'intégrabilité associées à un système différentiel linéaire. [Study of integrability conditions associated with a linear differential system] **86f:58073**
- Bernardi, Marco Luigi (with Capelo, António; Periti, Pierfrancesco) A mathematical model for the evolution of cell populations under the action of mutagenic agents. **86b:92002**
- Brunovský, Pavol (with Komorník, Josef) Ergodicity and exactness of the shift on $C[0, \infty)$ and the semiflow of a first-order partial differential equation. **86m:58084**
- Capelo, António See Bernardi, Marco Luigi et al., **86b:92002**
- Glaquinta, Mariano Direct methods for regularity in the calculus of variations. **86c:58032**
- Komorník, Josef See Brunovský, Pavol, **86m:58084**
- Melikyan, A. A. (with Ovseevich, A. I.) Hamiltonian systems with a specified invariant manifold and some of their applications. **86k:58040**
- Ovseevich, A. I. See Melikyan, A. A., **86k:58040**
- Periti, Pierfrancesco See Bernardi, Marco Luigi et al., **86b:92002**
- Safarov, D. Kh. An analogue of the Moisl-Theodoresco system. (Russian) **86c:30096**

35Gxx General higher-order equations and systems

35G05 Linear equations and systems, general

- Chau, N. N. Behavior of solutions of a system of partial differential equations in a half space. (Russian) **86c:35028**
- Kolarov, D. A method for reducing the number of arguments in systems of partial differential equations with variable coefficients. (Russian and Bulgarian summaries) **86c:35026**
- Li, Li Peng See Zhang, Xue Yuan, **86a:35032**
- Rakhmatullaev, A. Kh. General solution of a linear complex second-order equation with an isolated singularity of the coefficient. (Russian) **86g:35047**
- Salyga, B. O. An analogue of a multipoint problem for equations that are well posed in the sense of I. G. Petrovskii. (Russian) **86d:35031**
- Vu Kim Tuan The number of solutions of a system of partial differential equations. (Russian) **86f:35050**
- Zhang, Xue Yuan (with Li, Li Peng) A conjugate transposed matrix decision method for the uniform well-posedness of the Cauchy problem of a linear partial differential system. (Chinese. English summary) **86a:35032**

secondary classifications (35G05)

- Adjamagbo, K. Théorèmes d'indice pour les systèmes généraux d'équations différentielles linéaires. [Index theorems for general systems of linear differential equations] **86a:58097**
- Doppel, K. (with Jacob, Niels) A nonhypoelliptic Dirichlet problem from stochastic. **86e:35045**
- Egorov, Yu. V. ★ Линейные дифференциальные уравнения главного типа. (Russian) [Linear differential equations of principal type] **86f:35001**
- ★ Лекции по уравнениям с частными производными. (Russian) [Lectures on partial differential equations] **86j:35001**
- Huang, Yu Min On Egorov's principal type condition. (Chinese) (Not in MR)
- Jacob, Niels See Doppel, K., **86e:35045**
- Nafikov, Sh. G. Estimates for solutions of the first boundary value problem for equations of Sobolev type. (Russian) **86c:35015**

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- Chau, N. N. On the formulation of the Cauchy problem with data at infinity. (Russian) **86c:35027**
- Gindikin, S. G. The Cauchy problem for exponentially well-posed differential operators. (Russian) **86b:35033**
- Malovichko, V. A. A problem of Goursat type for a system of fourth-order differential equations. (Russian) **86a:35033**
- Saint Raymond, Xavier Autour du théorème de Holmgren sur l'unicité de Cauchy. [Concerning Holmgren's theorem on Cauchy uniqueness] **86c:35029**

secondary classifications (35G10)

- Dehman, Belhasen Unicité du problème de Cauchy pour une classe d'opérateurs quasi-homogènes. [Uniqueness of the Cauchy problem for a class of quasihomogeneous operators] **86f:35006**
- Jannelli, Enrico Linear Kovalevskian systems with time-dependent coefficients. **86d:35007**
- Meirose, R. B. The Cauchy problem and propagation of singularities. **86c:35088**
- Saint Raymond, Xavier Non-unicité de Cauchy pour des opérateurs principalement normaux. [Cauchy nonuniqueness for principally normal operators] **86c:35001**
- Umarov, S. R. On the theory of the Cauchy problem for partial differential equations on a torus. (Russian) **86c:35024**

35G15 Boundary value problems for linear equations and systems

- Alikhanova, R. I. See Atakishieva, R. Kh., **86j:35035**
- Ames, Karen A. Uniqueness and continuous dependence results for solutions of singular differential equations. **86b:35034**
- Atakishieva, R. Kh. (with Alikhanova, R. I.) A boundary value problem for an infinite-order linear differential equation with variable discontinuous coefficients. (Russian. English and Azerbaijani summaries) **86j:35035**
- Chernyatin, V. A. On the solution of a mixed problem for an inhomogeneous fourth-order partial differential equation. (Russian) **86b:35035**
- Filippov, V. M. A general approach to symmetrization of differential operators. (Russian) **86m:35030**
- Gusakov, V. M. A nonclassical problem for a system of two differential equations. (Russian) **86c:35030**
- Hong, Jia Xing BVPs for differential operators with characteristic degenerate surfaces. **86f:35051**
- Ibragimova, Dsh. I. See Kakhramanov, A. Sh., **86g:35048**
- Ismatov, M. A mixed problem for an equation that is not solved with respect to the highest time derivative. (Russian. Tajiki summary) **86f:35052**
- Ivrii, V. Ya. See Zaitseva, O. V., **86j:35038**
- Kakhramanov, A. Sh. (with Ibragimova, Dsh. I.) Boundary value problems in a half space for equations of Sobolev type. (Russian. English and Azerbaijani summaries) **86g:35048**
- Malovichko, V. A. The first boundary value problem for a fourth-order differential equation. (Russian) **86e:35030**
- On the theory of boundary value problems for third-order equations of mixed-composite type. (Russian) **86c:35031**
- Namasov, V. M. Conditions for self-conjugation of a boundary value problem. (Russian) **86d:35032**
- Palyutkin, V. G. Uniqueness of the solution of a boundary value problem with an integral condition for a differential equation in a strip. (Russian) **86g:35049**
- Panayakh, B. P. Nonelliptic boundary value problems connected with diffusion processes. (Russian) **86b:35029**
- Romanko, V. K. Nonlocal boundary value problems for some systems of equations. (Russian) **86i:35030**
- Rozanov, Yu. A. General boundary value problems for linear differential operators and the method of conjugate equations. (Russian) **86i:35031**
- Savchenko, G. B. Well-posedness of a boundary value problem. (Russian) **86d:35033**
- Sharifbaev, Ya. S. A boundary value problem for a third-order partial differential equation. (Russian) **86m:35031**
- Song, Kai Tai A mixed problem for a class of second-order systems of linear partial differential equations with singular initial hypersurface. (Chinese. English summary) **86a:35034**
- Sung, Li-Yeng On the perfectly reflecting boundary conditions. **86c:35031**
- Tovmasyan, N. E. General boundary value problems for systems of partial differential equations in a half space in the class of generalized functions. (Russian) **86f:35053**
- Wang, Chuan Fang Discrete phenomena in mixed problems for a class of inhomogeneous partial differential equations with multiple characteristics. (Chinese) **86g:35050**
- Zaitseva, O. V. (with Ivrii, V. Ya.) Strict and nonstrict inequalities in conditions for well-posedness of the Cauchy problem. (Russian) **86j:35036**

secondary classifications (35G15)

- Balmenov, B. Some boundary value problems for an equation of mixed-composite type containing a parabolic-hyperbolic operator. (Russian) **86k:35099**
- Day, W. A. Steady state oscillatory temperatures in coupled quasistatic thermoelasticity. **86d:73009**
- Herrera, Ismael ★ Boundary methods. **86m:35006**
- Jacob, Niels On generalized Dirichlet problems. **86m:35049**
- Mikhailov, K. I. Boundary value problems for a third-order equation. (Bulgarian. French and Russian summaries) **86b:35148**
- Shynybekov, A. N. Well-posed problems for products of differential operators. (Russian. Kazakh summary) **86k:47011**
- Sokolov, A. G. Existence of generalized solutions of steady-state boundary value problems of electromagnetic hydrodynamics. (Russian) **86c:78058**

35G20 Nonlinear equations and systems, general

- Brelia, H. Problèmes de convergence dans certaines EDP non linéaires et applications géométriques. [Convergence problems in some nonlinear PDEs and geometric applications] (See **86f:35004**)
- Kobayashi, Takao On the prolongation of solutions for quasilinear differential equations. **86d:35034**
- Koshanov, A. I. A class of nonlinear equations of order $2n+1$. (Russian) **86c:35032**
- Mukhllov, F. G. The existence and uniqueness of the solution of some partial differential equations with a Bessel differential operator. (Russian) **86d:35035**
- Sharifov, T. A. Investigation of the generalized solution of a one-dimensional boundary value problem in a finite domain for a class of third-order partial differential equations with nonlinear operator right-hand side. (Russian. English and Azerbaijani summaries) **86c:35032**

secondary classifications (35G20)

- Chan Dyk Van ★ Нелинейные дифференциальные уравнения и функциональные пространства бесконечного порядка. (Russian) [Nonlinear differential equations and infinite-order function spaces] **86f:46032**
- (Dubinskii, Yu. A.) See Chan Dyk Van, **86f:46032**
- Klainerman, Sergiu Long time behaviour of solutions to nonlinear wave equations. (See **86g:00010**)
- Kocić, Vlado Lj. Linearization of nonlinear differential equations. IV. Nonlinear second-order partial differential equations equivalent to linear base equation. **86g:34009**
- Nieto, Juan J. Existence of solutions in a cone for nonlinear alternative problems. **86d:47006**
- Tsujishita, Toru Formal geometry of differential equation systems. (Japanese) **86d:58130**
- Zharinov, V. V. Geometry of analytic jets. (Russian) **86e:58006**

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secondary classifications (35G25)

- Arosio, Alberto (with Spagnolo, Sergio) Global solutions to the Cauchy problem for a nonlinear hyperbolic equation. **86c:35091**
- Rauch, Jeffrey (with Reed, Michael) Striated solutions of semilinear, two-speed wave equations. **86m:35111**
- Reed, Michael See Rauch, Jeffrey, **86m:35111**
- Spagnolo, Sergio See Arosio, Alberto, **86c:35091**

35G30 Boundary value problems for nonlinear equations and systems

- Abdinazarov, S. A boundary value problem of Bitsadze-Samarskii type for a third-order equation with multiple characteristics. (Russian) **86k:35029**
- See also Dahurav, T. D., **86m:35034**; **86m:35035** and **86m:35036**
- Alabidi, Ali Réflexion transverse des singularités pour un problème aux limites non linéaire d'ordre 2. (English summary) [Transversal reflection of singularities for a second-order nonlinear boundary value problem] **86m:35032**
- Dahurav, T. D. (with Abdinazarov, S.) Some boundary value problems for a fourth-order equation with multiple characteristics. (Russian) **86m:35034**
- (with Abdinazarov, S.) A nonlocal boundary value problem for a fourth-order equation with multiple characteristics. (Russian) **86m:35036**
- (with Abdinazarov, S.) Some nonlocal boundary value problems for fourth-order equations with multiple characteristics. (Russian) **86m:35035**
- El-Kadi, A. Solution of a mixed problem. (Russian. English and Azerbaijani summaries) **86b:35036**
- Kasenov, Sh. K. Solvability of a boundary value problem for a class of third-order nonlinear equations. (Russian) **86a:35035**
- Kocheshkov, G. V. The Rothe method in a nonclassical problem for two differential equations of different types. (Russian) **86c:35033**
- Mamedov, A. P. A generalization of a mixed problem for a class of nonlinear differential equations (the eigenvalue case). (Russian. English and Azerbaijani summaries) **86a:35038**
- Sablé-Tougeron, Monique Régularité microlocale pour des problèmes aux limites non linéaires. (English summary) [Microlocal regularity for nonlinear boundary value problems] **86m:35033**

secondary classifications (35G30)

- Cesari, L. (with Kannan, Rangachary) Qualitative study of a class of nonlinear boundary value problems at resonance. **86g:47083**
- Kannan, Rangachary See Cesari, L., **86g:47083**
- Rogers, Colin Application of linked Bäcklund transformations to nonlinear boundary value problems. **86j:35145**
- Rüprich, Wolfgang Eine Lösungsmethode für das Randwert-Sprung-Problem für implizite partielle Differentialgleichungssysteme in der Ebene. [A solution method for

- the boundary value jump problem for systems of implicit partial differential equations in the plane] **86g:35046**
- Sharifov, T. A. Investigation of the generalized solution of a one-dimensional boundary value problem in a finite domain for a class of third-order partial differential equations with nonlinear operator right-hand side. (Russian. English and Azerbaijani summaries) **86e:35033**
- 35G99** None of the above, but in this section
- Bachelot, Alain (with Hanouzet, Bernard) Applications bilinéaires compatibles avec un système différentiel à coefficients variables. (English summary) [Bilinear mappings compatible with a differential system with variable coefficients] **86e:35034**
- Balashova, G. S. Infinite-order equations with subordinate terms, and embedding theorems. (Russian) **86f:35054**
- Hanouzet, Bernard See Bachelot, Alain, **86e:35034**
- secondary classifications (**35G99**)
- Gener, V. N. Some a priori estimates in calculation of generalized solutions of boundary value problems. (Bulgarian. English and Russian summaries) **86e:35037**
- Nacovich, Mauro On global solvability for some systems of partial differential equations. **86a:58096**
- 35H05** Hypoelliptic equations and systems [See also 58Gxx.]
- Akamatsu, Toyohiro Hypoellipticity of some degenerate parabolic operators. **86j:35037**
- Burenkov, V. I. (with Maman, K. R.) Sharp estimates for the rate of growth of derivatives of solutions of hypoelliptic equations depending on the behavior at infinity. (Russian) **86a:35037**
- Fu, Chu Li See Luo, Xue Bo, **86m:35037**
- Fujiwara, Daisuke (with Omori, Hideki) An example of a globally hypo-elliptic operator. **86a:35038**
- Grigis, A. Hypoellipticité analytique d'opérateurs transversalement elliptiques. [Analytic hypoellipticity of transversally elliptic operators] **86b:35030**
- Gutiérrez, Ángel (with de Guzmán, M.; Peral Alonso, Irene) Fundamental solutions of a certain class of hypoelliptic operators. (Spanish. English summary) **86k:35030**
- de Guzmán, M. See Gutiérrez, Ángel et al., **86k:35030**
- Ifimiev, Viorel Le principe d'absorption limitée pour une classe d'opérateurs formellement hypoelliptiques. [The limited absorption principle for a class of formally hypoelliptic operators] **86j:35038**
- Kelke, Minoru On the microlocal hypoellipticity of pseudodifferential operators. **86c:35033**
- Kulkov, A. A. Existence and smoothness of generalized solutions of B -hypoelliptic equations. (Russian) **86c:35034**
- Luo, Xue Bo (with Fu, Chu Li) A class of hypoelliptic differential operators not of principal type. (Chinese) **86m:35037**
- Maman, K. R. See Burenkov, V. I., **86a:35037**
- Mari, Daniela Remarks on some hybrid hyperbolic-hypoelliptic operators. (Italian. English summary) **86j:35039**
- Nourrigat, Jean Approximation of systems of pseudodifferential operators. **86b:35031**
- Omori, Hideki See Fujiwara, Daisuke, **86a:35038**
- Peral Alonso, Irene See Gutiérrez, Ángel et al., **86k:35030**
- Qiu, Qing Jiu On partial hypoellipticity of first order Fuchsian evolution operators. **86j:35040**
- Vulov, Kh. D. A class of positive bilinear forms. (Bulgarian. English and Russian summaries) **86a:35039**
- Xu, Chao Jiang Hypoellipticité pour les équations aux dérivées partielles non linéaires associées à un système de champs de vecteurs. (English summary) [Hypoellipticity for nonlinear partial differential equations associated with a system of vector fields] **86f:35055**
- secondary classifications (**35H05**)
- Catlin, David Boundary invariants of pseudoconvex domains. **86c:32019**
- Chaleyat-Maurel, Mireille (with Michel, Dominique) Hypoellipticity theorems and conditional laws. **86d:60070**
- Chen, Yun Mei See Xu, Li Cun, **86e:35066**
- Corwin, Lawrence (with Helffer, B.; Rothschild, Linda Preiss) Smoothness and analyticity for solutions of first order systems of partial differential equations on nilpotent Lie groups. **86k:58137**
- Necessary and sufficient conditions for hypoellipticity of certain left invariant operators on nilpotent Lie groups. II. **86i:58123**
- Egorov, Yu. V. ★ Линейные дифференциальные уравнения главного типа. (Russian) [Linear differential equations of principal type] **86f:35001**
- Fefferman, C. (with Phong, D. H.) Subelliptic eigenvalue problems. **86c:35112**
- Geller, Daryl Toward analytic pseudodifferential operators for the Heisenberg group. **86g:22014**
- Grigis, A. (with Sjöstrand, Johannes) Front d'onde analytique et sommes de carrés de champs de vecteurs. [Analytic wave front and sums of squares of vector fields] **86h:58136**
- Helffer, B. Partial differential equations on nilpotent groups. **86b:22016**
- See also Corwin, Lawrence et al., **86k:58137**
- Huang, Yu Min On Egorov's principal type condition. (Chinese) (Not in MR)
- Hulanicki, Andrzej A functional calculus for Rockland operators on nilpotent Lie groups. **86g:22009**
- Kim, Rak Jung (with Lee, Choon Ho) Subellipticity and the commutators. **86c:35173**
- Kolesnikova, E. A. Subelliptic estimates for a problem with directional derivative in L^p . (Russian) **86c:35042**
- Korányi, A. (with Stanton, Nancy K.) Liouville-type theorems for some complex hypoelliptic operators. **86i:22016**
- Kwon, Kil Hyun Hypoellipticity and local solvability of operators with double characteristics. **86k:35163**
- Lee, Choon Ho See Kim, Rak Jung, **86c:35173**
- Lévy-Bruhl, Pierre Conditions suffisantes de résolubilité locale d'opérateurs invariants à gauche sur des groupes nilpotents. [Sufficient conditions of local solvability for left invariant operators on nilpotent groups] **86g:58123**
- Lorenz, Michael Unsolvability of hypoelliptic differential operators with a totally characteristic point. **86b:35003**
- Luo, Xue Bo Multiplication in S' and the solvability and hypoellipticity of a class of linear partial differential operators in S' . (Chinese) (Not in MR)
- Melin, Anders Parametrix constructions for right invariant differential operators on nilpotent groups. **86f:58154**
- Michel, Dominique See Chaleyat-Maurel, Mireille, **86d:60070**
- Nacovich, Mauro Poincaré lemma for tangential Cauchy-Riemann complexes. **86e:32025**
- Nagel, Alexander (with Stein, Elias M.; Wainger, Stephen) Balls and metrics defined by vector fields. I. Basic properties. **86k:46049**
- Pahk, D. H. On the convolution equations in the space of distributions of L^p -growth. **86j:46037**
- Phong, D. H. See Fefferman, C., **86c:35112**
- Rothschild, Linda Preiss Analyticity of solutions of partial differential equations on nilpotent Lie groups. **86e:22017**
- See also Corwin, Lawrence et al., **86k:58137**
- Sánchez-Calle, Antonio Fundamental solutions and geometry of the sum of squares of vector fields. **86e:58078**
- Sjöstrand, Johannes See Grigis, A., **86h:58136**
- Stanton, Nancy K. See Korányi, A., **86i:22016**
- Stein, Elias M. See Nagel, Alexander et al., **86k:46049**
- Sternin, B. Yu. Differential equations of subprincipal type. (Russian) **86b:58117**
- Taylor, Michael E. Noncommutative microlocal analysis. I. **86f:58156**
- Trépan, Jean-Marie Sur l'hypoellipticité analytique microlocale des opérateurs de type principal. [Microlocal analytic hypoellipticity of operators of principal type] **86m:58144**
- Tulovskii, V. N. Factorization of pseudodifferential operators. (Russian) **86e:35154**
- Veretennikov, A. Probabilistic problems in the theory of hypoellipticity. (Russian) **86f:58171**
- Wainger, Stephen See Nagel, Alexander et al., **86k:46049**
- Xu, Li Cun (with Chen, Yun Mei) Local solvability and hypoellipticity for a class of evolution equations. (Chinese) **86e:35066**
- Yoshikawa, Atsushi A study of a certain nonconventional operator of principal type. **86g:35004**
- Zampieri, Giuseppe Differential operators with constant coefficients of hyperbolic (hypo)elliptic type. (Italian) **86m:35028**
- 35Jxx** Elliptic equations and systems [See also 58G05, 58G10.]
- Gilbarg, David (with Trudinger, Neil S.) ★ Elliptic partial differential equations of second order. **86c:35035**
- Trudinger, Neil S. See Gilbarg, David, **86c:35035**
- secondary classifications (**35Jxx**)
- Bilev, N. K. ★ Обобщенные аналитические функции в дробных пространствах. (Russian) [Generalized analytic functions in fractional spaces] **86j:30067**
- 35J05** Laplace equation, reduced wave equation (Helmholtz), Poisson equation
- Alber, Hans-Dieter Numerical computation of waves at high frequencies by an iterated WKB-method. **86d:35036**
- (with Ramn, A. G.) Scattering amplitude and the inverse scattering problem for a class of nonconvex obstacles. **86b:35037**
- Amel'nikov, V. G. (with Khristalev, A. F.) A boundary value problem for the Laplace equation. (Russian) **86f:35056**
- Angell, Thomas S. (with Kress, Rainer) L^2 -boundary integral equations for the Robin problem. **86e:35035**
- (with Kleinman, Ralph E.) The Helmholtz equation with L_2 boundary values. **86f:35057**
- Belinskii, B. P. The Fredholm property for boundary-contact problems of acoustics. (Russian) **86k:35031**
- Burton, Theodore A. Periodic solutions of linear Volterra equations. **86d:35037**
- Colton, David (with Kirsch, Andreas) Dense sets and far field patterns in acoustic wave propagation. **86b:35033**
- Donig, J. A localization of Fredholm eigenvalues for the Helmholtz operator in bounded domains. **86j:35041**
- Faradshv, A. S. A problem with an oblique derivative. (Russian) **86b:35038**
- Fedoryuk, M. V. (with Nurmagedev, A. M.) The Neumann problem for the Helmholtz equation in the exterior of an infinite cylinder. (Russian) **86b:35039**
- Scattering of a plane wave by a cylindrical surface with long perturbation. (Russian) **86i:35032**
- Filar, Maria Boundary value problems for the Helmholtz equation in a rectangular polyhedral angle of the Euclidean n -space. **86e:35036**
- Fishman, Louis (with McCoy, John J.) Derivation and application of extended parabolic wave theories. I. The factorized Helmholtz equation. **86a:35040**
- (with McCoy, John J.) Derivation and application of extended parabolic wave theories. II. Path integral representations. **86a:35041**
- Grievard, P. Singular solutions of elliptic boundary value problems in polyhedra. **86c:35042**
- Ibragimov, A. I. Behavior of the solution of a mixed problem in the neighborhood of a boundary point. (Russian. English and Azerbaijani summaries) **86c:35036**
- Isomov, I. Construction of a regularized solution of the Cauchy problem for the Helmholtz equation. (Russian) **86c:35033**
- Jones, D. S. Note on a uniqueness theorem of Schiffer. **86k:35032**

- Khrustalev, A. F. See Amel'kovich, V. G., 86b:35056
- Kirsch, Andreas See Colton, David, 86b:35037
- Kleinman, Ralph E. See Angell, Thomas S., 86b:35057
- Kosmodem'yanskii, A. A., Jr. A problem with unknown boundary for elliptic equations. (Russian) 86j:35042
- Kress, Rainer See Angell, Thomas S., 86b:35035
- Lemrabet, Keddour Problème aux limites de Ventcel dans un domaine non régulier. (English summary) [Ventcel's boundary value problem in a nonsmooth domain] 86c:35037
- Lin, Tsu Chu A proof for the Burton and Miller integral equation approach for the Helmholtz equation. 86b:35033
- Lintner, Majorsata On the nonlinear problem for the equation $(\Delta - c^2)u(X) = F(u(X))$ in the domain E_3^+ . 86m:35038
- Maz'ya, V. G. (with Nazarov, S. A.; Plamenevskii, B. A.) The Dirichlet problem in domains with thin cross connections. (Russian) 86f:35058
- McCoy, John J. See Flahman, Louis, 86a:35040 and 86a:35041
- Nazarov, S. A. See Maz'ya, V. G. et al., 86f:35058
- Nieto-Vesperinas, Manuel On the representation of two-dimensional scalar wave fields in the complex plane. 86c:35037
- Nurmagomedov, A. M. See Fedoryuk, M. V., 86b:35039
- Plamenevskii, B. A. See Maz'ya, V. G. et al., 86f:35058
- Ramm, A. G. See Alber, Hans-Dieter, 86b:35037
- Roach, G. F. Boundary integral equation methods for elliptic boundary value problems. 86m:35039
- Smith, Robert T. A stable method for an inverse problem in acoustic scattering by an obstacle with an impedance boundary condition. 86b:35034
- An inverse acoustic scattering problem for an obstacle with an impedance boundary condition. 86f:35059
- Velicković, Dragutin M. A new interpretation for Green's functions of circular conducting cylinder and its applications. (Serbo-Croatian summary) (See 86g:85009)
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- Shopolov, N. N. Nonlocal boundary value problems for the heat equation in infinite domains. (Bulgarian. French and Russian summaries) **86a:35061**
- Solonnikov, V. A. Solvability of classical initial-boundary value problems for the heat equation in a two-sided corner. (Russian. English summary) **86f:35093**
- Suvetika, I. V. The Cauchy problem for nonstationary equations with small viscosity. (Russian) **86k:35056**
- Taylor, Samuel James (with Watson, N. A.) A Hausdorff measure classification of polar sets for the heat equation. **86m:35077**
- Tsarenko, V. N. See Virchenko, N. A., **86m:35078**
- Virchenko, N. A. (with Tsarenko, V. N.) Some boundary value problems for a singular parabolic equation. (Russian) **86m:35078**
- Watson, N. A. See Taylor, Samuel James, **86m:35077**
- secondary classifications (35K05)
- Ad'yutov, M. M. (with Mikhailov, A. P.) Unbounded invariant solutions of the nonlinear heat equation with a source, which have the self-focusing property. (Russian. English summary) **86b:80004**
- Akkuratov, Yu. N. (with Mikhailov, V. N.) Solution of nonlinear stationary problems of heat conduction with boundary conditions of the I-IVth kind. (Russian) **86i:80002**
- Alexiades, V. See Solomon, A. D. et al., **86g:35216**
- Baillon, J. C. (with Bertsch, M.; Chadam, J.; Ortoleva, P.; Peletier, L. A.) Existence, uniqueness and asymptotic behavior of solutions of the planar, supersaturated solidification, Cauchy-Stefan problem. **86i:35146**
- Baumelster, J. (with Jung, W.; Scondo, W.) Über Rand-Kontrollprobleme aus der Wärmeleitung für Materialien mit Gedächtnis. [On boundary control problems of heat conductivity for materials with memory] **86a:49044**
- Beals, R. (with Greiner, Peter C.; Stanton, Nancy K.) The heat equation on a CR manifold. **86g:58135**
- Bertsch, M. See Baillon, J. C. et al., **86i:35146**
- Bishanova, G. I. See Kim, E. I. et al., **86m:35022**
- Borodin, M. A. The two-phase quasistationary Stefan problem. (Russian) **86a:35146**
- Borukhov, V. T. Reconstruction of heat fluxes through differential temperature measurement by the method of inverse dynamic systems. **86i:80003**
- Chadam, J. See Baillon, J. C. et al., **86i:35146**
- Chi-Dun-Chi, Yu. V. Solution of an inverse problem of heat conduction theory. (Russian. Kazakh summary) **86h:35132**
- Chugunov, V. A. See Grigor'ev, S. G. et al., **86m:55120**
- Colton, David. The strong maximum principle for the heat equation. **86k:35016**
- Danilyuk, I. I. An initial-boundary value problem for the quasilinear heat equation with discontinuous coefficients. (Russian) **86c:35078**
- Davies, E. B. (with Simon, Barry) Ultracontractivity and the heat kernel for Schrödinger operators and Dirichlet Laplacians. **86e:47054**
- Demchenko, V. V. (with Markin, V. D.) A family of exact solutions of the multidimensional nonlinear heat equation. (Russian) **86g:35036**
- Dorogovtsev, A. Ya. (with Ivasishen, S. D.; Kukuish, A. G.) Asymptotic behavior of solutions of the heat equation with white noise in the right-hand side. (Russian) **86m:35016**
- Dümmel, Siegfried. Inverse problems for the heat equation. (See **86b:00003**)
- Ecsedi, I. Bounds for the heat transfer coefficient. **86f:80006**
- Fage, D. M. On the solution of the two-phase Stefan problem by the decomposition method. (Russian) **86m:55122**
- Greiner, Peter C. See Beals, R. et al., **86g:58135**
- Grigor'ev, S. G. (with Lapin, A. V.; Chugunov, V. A.) Investigation of the Galerkin method for one-dimensional single-phase Stefan problems. (Russian) **86m:55120**
- Ivasishen, S. D. See Dorogovtsev, A. Ya. et al., **86m:35016**
- Jung, W. See Baumelster, J. et al., **86a:49044**
- Kharin, S. N. See Kim, E. I. et al., **86m:35022**
- Kim, E. I. (with Kharin, S. N.; Bishanova, G. I.) Asymptotic solution of the Stefan problem for small time values. (Russian. Kazakh summary) **86m:35022**
- Korányi, A. (with Taylor, John Christopher) Minimal solutions of the heat equation and uniqueness of the positive Cauchy problem on homogeneous spaces. **86i:58126**
- Krasnov, Ya. A. Thermal potentials in problems with a moving boundary. (Russian) **86g:35214**
- Kukhta, G. P. Construction of the solution of the first boundary value problem for an equation of parabolic type with delay in the highest term. (Russian) **86k:35150**
- Kukuish, A. G. See Dorogovtsev, A. Ya. et al., **86m:35016**
- Lapin, A. V. See Grigor'ev, S. G. et al., **86m:55120**
- Lehnick, S. H. A generalized Jacobi theta function. **86b:33002**
- Lenyuk, M. P. Fourier integral transformations for piecewise homogeneous unbounded and semibounded media. (Russian) **86j:35030**
- Magenes, Enrico (with Verdi, C.) ★ On the semigroup approach to the two-phase Stefan problem with nonlinear flux conditions. **86b:35203**
- Markin, V. D. See Demchenko, V. V., **86g:35036**
- Meyer, Sybille. Die Existenz einer Lösung für ein inverses Problem der Wärmeleitungsgleichung im quasilinearen Fall. [The existence of a solution for an inverse problem of the heat equation in the quasilinear case] **86b:35199**
- Mhaskar, H. N. A trace theorem for caloric functions. **86k:35019**
- Mikhailov, A. P. See Ad'yutov, M. M., **86b:80004**
- Mikhailov, V. N. See Akkuratov, Yu. N., **86i:80002**
- Nesenenko, G. A. (with Tyurin, Yu. N.) Ray asymptotic behavior of the Green function of the heat equation with small parameter. (Russian) **86j:35019**
- Ortoleva, P. See Baillon, J. C. et al., **86i:35146**
- Peletier, L. A. See Baillon, J. C. et al., **86i:35146**
- Proka, D. V. Asymptotic behavior of solutions of exterior mixed problems for the heat equation. (Russian) **86k:35022**
- Roytburd, Victor. Phragmén-Lindelöf type results for periodic solutions of parabolic equations on a half-line. **86k:35017**
- Rundell, William. The use of integral operators in undetermined coefficient problems for partial differential equations. **86j:35157**
- Saleh, S. V. Asymptotic behavior of the solution of a Stefan problem. (Russian) **86c:35016**
- Scondo, W. See Baumelster, J. et al., **86a:49044**
- Sidenko, N. R. Solvability of the heat conduction problem for a heat radiating opaque body with openings. (Russian) **86f:80008**
- Simon, Barry. See Davies, E. B., **86e:47054**
- Sinestrari, E. Classical solutions of parabolic equations in Hölder spaces. (Italian summary) **86m:34062**
- Solomon, A. D. (with Wilson, D. G.; Alexiades, V.) The quasistationary approximation for the Stefan problem with a convective boundary condition. **86g:35216**
- Stanton, Nancy K. The heat equation in several complex variables. **86a:58101**
- See also Beals, R. et al., **86g:58135**
- Taylor, John Christopher. See Korányi, A., **86i:58126**
- Tyurin, Yu. N. See Nesenenko, G. A., **86j:35019**
- Verdi, C. See Magenès, Enrico, **86b:35203**
- Vlasin, A. ★ Stefan problem with surface tension. **86b:80013**
- Weck, N. On exact boundary controllability for parabolic equations. **86c:49046**
- Wilson, D. G. See Solomon, A. D. et al., **86g:35216**
- 35K10 Second-order equations, general
- Akhromeeva, T. S. (with Malinetskii, G. G.) The simplest types of ordering in two-dimensional dissipative systems. (Russian) **86b:35076**
- Chuvaeva, S. I. See Stoyan, Yu. G., **86a:35065**
- Đoàn Văn Ngọc. Asymptotic behavior of the solutions of boundary value problems for second-order parabolic equations in the neighborhood of a corner point of the boundary. (Russian) **86c:35062**
- Dubois, Roger-Marie. Systèmes paraboliques et dissipativité pour différentes normes. [Parabolic systems and dissipativity for different norms] **86i:35059**
- Eidel'man, S. D. See Porper, F. O., **86b:35078**
- Felsul'ev, N. A. Solution of a mixed problem with reverse time flow for a parabolic equation. (Russian. English and Azerbaijani summaries) **86c:35065**
- Grabarska, Halina. Application of integral operators to the study of the Fourier problem of first kind. **86c:35063**
- Herrans Lucas, Luis. The Bellman-Dirichlet equation for two parabolic operators. (Spanish) **86f:35094**
- Kamynin, L. I. (with Khimchenko, B. N.) A theorem on one-sided a priori boundary estimation for the solution of a second-order degenerate parabolic equation. (Russian) **86j:35076**
- (with Khimchenko, B. N.) A theorem on an infinite derivative for a second-order parabolic equation with a nonnegative characteristic form. (Russian) **86j:35077**
- (with Khimchenko, B. N.) A theorem on the interior derivative for a second-order parabolic equation. (Russian) **86j:35078**
- Khimchenko, B. N. See Kamynin, L. I., **86j:35076**; **86j:35077** and **86j:35078**
- Khudaikuliev, G. A priori estimation of the solution of a parabolic equation. (Russian) **86c:35066**
- Liang, Xi Ting (with Wu, Zai De) The generalized solutions of nonuniformly parabolic equations. (Chinese) **86g:35089**
- Malinetskii, G. G. See Akhromeeva, T. S., **86b:35076**
- Murata, Minoru. Large time asymptotics for fundamental solutions of diffusion equations. **86m:35079**
- Nesterova, T. N. Solution of a parabolic equation with a small parameter in a rectangle. (Russian) **86m:35080**
- Olsewski, Paweł. Properties of second-order derivatives of thermal potentials for an equation of parabolic type. (Russian) **86b:35077**
- Porper, F. O. (with Eidel'man, S. D.) Two-sided estimates of the fundamental solutions of second-order parabolic equations and some applications of them. (Russian) **86b:35078**
- Stoyan, Yu. G. (with Chuvaeva, S. I.) Dependence of a field of discrete sources on their distribution parameters. (Russian. English summary) **86a:35065**
- Tobias, T. Approximate determination of a domain from the values of the mean exit time of a diffusion process from it. (Russian) **86j:35079**
- Wu, Zai De. See Liang, Xi Ting, **86g:35089**
- Zhuang, Xin Hua. The fundamental solutions of second-order parabolic partial differential equations. (Chinese) **86j:35080**
- secondary classifications (35K10)
- Akhromeeva, T. S. (with Malinetskii, G. G.) Symmetric solutions of the Kuramoto-Tsuzuki equation. (Russian) **86k:35023**
- Andreucci, D. Continuation of the solution of a free boundary problem in cylindrical symmetry. (Italian summary) **86g:35210**
- Baranova, O. V. Existence of a periodic solution of a linearized problem of chemical catalysis. (Russian) **86c:80010**
- Bauer, Heins. Elliptic differential operators and diffusion processes. **86b:35067**
- Davis, G. B. A Laplace transform technique for the analytical solution of a diffusion-convection equation over a finite domain. **86k:35024**
- Kalyakin, L. A. Construction of the asymptotics of the solution of a degenerate parabolic equation with a small parameter. (Russian) **86j:35028**
- Kresin, G. I. See Mas'ya, V. G., **86f:35033**
- Malinetskii, G. G. See Akhromeeva, T. S., **86k:35023**
- Mamedov, F. M. Boundedness of derivatives of solutions of parabolic equations near an irregular boundary point. (Russian. English and Azerbaijani summaries) **86b:35017**
- Mamedov, I. T. A theorem on the oscillation of solutions of second-order parabolic equations with discontinuous coefficients. (Russian. English and Azerbaijani summaries) **86c:35008**
- Mas'ya, V. G. (with Kresin, G. I.) The maximum principle for second-order strongly elliptic and parabolic systems with constant coefficients. (Russian) **86f:35033**

- Ro, Puk Hyon On the asymptotic behavior of the solution of the linear diffusion equation. (Korean. English summary) **86g:35022**
- Shugrin, S. M. A system of inequalities connected with elliptic and parabolic operators. (Russian) **86g:35054**
- Suzuki, Takashi Gelfand-Levitan's theory, deformation formulas and inverse problems. **86a:35157**
- Yamanaka, Takeshi On the uniqueness of solutions of a certain characteristic Cauchy problem. **86e:35085**

35K15 Second-order equations, initial value problems

- Canak, M. Das Cauchy'sche Problem für die parabolische Differentialgleichung mit einer Anwendung in der Theorie der Wärmeleitung. [The Cauchy problem for the parabolic differential equation with an application in the theory of heat conduction] (Not in MR)
- Fabes, E. B. (with Kenig, Carlos E.) Examples of singular parabolic measures and singular transition probability densities. **86j:35081**
- Kamynin, L. I. (with Khimchenko, B. N.) An approach to the problem of uniqueness for second-order parabolic equations. (Russian) **86a:35066**
- Kenig, Carlos E. See Fabes, E. B., **86j:35081**
- Khimchenko, B. N. See Kamynin, L. I., **86a:35066**
- Mamedov, Yu. A. (with Namasov, V. M.) Solution of a one-dimensional Cauchy problem for a second-order parabolic system with discontinuous coefficients. (Russian) **86b:35079**
- Namasov, V. M. See Mamedov, Yu. A., **86b:35079**

secondary classifications (35K15)

- Galaktionov, V. A. A proof of the localization of unbounded solutions of the nonlinear parabolic equation $u_t = (u^m u_x)_x + u^p$. (Russian) **86d:35068**
- Loris, Dietrich (with Meyer-Spasche, Rita; Stredulinsky, E. W.) Asymptotic behavior of the solutions of certain parabolic equations. **86a:35020**
- Meyer-Spasche, Rita See Loris, Dietrich et al., **86a:35020**
- Sager, Herbert C. An evolution equation perturbed by an unbounded semilinear operator and a boundary condition. **86i:34082**
- Stredulinsky, E. W. See Loris, Dietrich et al., **86a:35020**

35K20 Second-order equations, boundary value problems

- Aliev, R. D. Generalized Poincaré (Neumann) problem for parabolic equations in nontube domains with nonsmooth boundary. (Russian. English and Azerbaijani summaries) **86m:35081**
- Chekalin, A. N. Solvability of a problem with integral boundary conditions for a differential equation of parabolic type. (Russian) **86g:35090**
- Filippov, V. M. A variational method of solution of a nonlocal boundary value problem for a parabolic equation. (Russian) (See **86e:34003**)
- Florito, Giovanni Solution of the Cauchy-Dirichlet problem in cylinders having the Poincaré property. (Italian. English summary) **86c:35067**
- Gagnidze, A. G. Classes of uniqueness of solutions of boundary value problems for second-order parabolic equations in an unbounded domain. (Russian) **86i:35060**
- Garron, M. G. (with Solonnikov, V. A.) On parabolic oblique derivative problem with Hölder continuous coefficients. **86h:35058**
- Green's function and asymptotic behaviour of the solution of some oblique derivative problem not in divergence form. (See **86e:49005**)
- Goldstein, J. A. (with Mazumdar, Tapas) A heat equation in which the diffusion coefficient changes sign. **86g:35091**
- Gushchin, A. K. (with Mikhailov, V. P.; Mikhailov, Yu. A.) Estimates for the Green function and a criterion for uniform stabilization of the solution of the second mixed problem for a second-order parabolic equation. (Russian) **86j:35082**
- Heinrich, Jörg Einige Bemerkungen zur Anfangs-Randwertaufgabe $(\partial/\partial t)u - h(x, t)\Delta u = f$ mit meßbarem Koeffizienten. (English and Russian summaries) [Some remarks on the initial-boundary value problem $(\partial/\partial t)u - h(x, t)\Delta u = f$ with measurable coefficients] **86i:35061**
- Kadyrov, R. R. The behavior in the neighborhood of a boundary point and at infinity of solutions to second-order parabolic equations. (Russian) **86e:35064**
- Klaus, Martin (with van der Mee, C. V. M.; Protopenescu, V.) Solutions des problèmes Sturm-Liouville indéfinis dans un demi-espace. (English summary) [Half-range solutions of indefinite Sturm-Liouville problems] **86j:35083**
- Kurbanmuradov, O. A. (with Sabelfeld, K. K.) Solution of multidimensional problems of potential theory by the method of random walk along the boundary. (Russian) **86i:35082**
- Mamedov, N. M. Solution of a boundary value problem with mixed boundary conditions for a parabolic system in a plane domain. (Russian) **86c:35068**
- Mazumdar, Tapas See Goldstein, J. A., **86g:35091**
- van der Mee, C. V. M. See Klaus, Martin et al., **86j:35083**
- Mikhailov, V. P. See Gushchin, A. K. et al., **86j:35082**
- Mikhailov, Yu. A. See Gushchin, A. K. et al., **86j:35082**
- Protopenescu, V. See Klaus, Martin et al., **86j:35083**
- Sabelfeld, K. K. See Kurbanmuradov, O. A., **86i:35082**
- Simondon, Frédérique Étude de l'équation $\delta_t u - \operatorname{div}(b u, \nabla u) = 0$ dans $]0, T[\times \Omega$, $b u = b^0$ sur $(0) \times \Omega$, $u = 0$ sur $]0, T[\times \Gamma$, $\Gamma \subset \partial \Omega$, $a(b u, \nabla u) \cdot \nu = 0$ sur $]0, T[\times (\partial \Omega \setminus \Gamma)$ par la méthode des semi-groupes dans $L^1(\Omega)$. [Study of $\delta_t u - \operatorname{div}(b u, \nabla u) = 0$ in $]0, T[\times \Omega$, $b u = b^0$ on $(0) \times \Omega$, $u = 0$ on $]0, T[\times \Gamma$, $\Gamma \subset \partial \Omega$, $a(b u, \nabla u) \cdot \nu = 0$ on $]0, T[\times (\partial \Omega \setminus \Gamma)$ by the semigroup method in $L^1(\Omega)$] **86b:35080**
- Solonnikov, V. A. See Garron, M. G., **86h:35058**
- Terakado, Masamichi On singular initial-boundary value problems for second order parabolic equations. **86e:35085**
- Tomescu, Anca See Tomescu, F. M. G., **86c:35069**
- Tomescu, F. M. G. (with Tomescu, Anca) Existence of the weak solution of general mixed problems for the parabolic equation. **86c:35069**

- Zhumabekov, L. A boundary value problem for a parabolic equation in an angular domain. Determination of the integral representation of a solution. (Russian. Kazakh summary) **86h:35089**

secondary classifications (35K20)

- Buttu, Anna The Cauchy-Dirichlet problem for a second-order degenerate parabolic operator. (Italian. English summary) **86d:35074**
- Dümmel, Siegfried Ein Eindeutigkeitsatz zur Bestimmung eines Koeffizienten in der Wärmeleitungsgleichung. [A uniqueness theorem for the determination of a coefficient in the heat equation] **86b:35195**
- Dzhamalov, R. I. The boundary behavior of solutions of second-order degenerate parabolic equations. (Russian. English and Azerbaijani summaries) **86d:35075**
- Fabes, E. B. (with Stroock, D. W.) The L^p -integrability of Green's functions and fundamental solutions for elliptic and parabolic equations. **86g:35057**
- Iakimov, A. D. Regularization of a multidimensional inverse problem and its optimization formulation. (Russian. English and Azerbaijani summaries) **86f:35174**
- Kalashnikov, A. S. Dependence of properties of solutions of parabolic equations in unbounded domains on the behavior of coefficients at infinity. (Russian) **86m:35093**
- King, Michael J. Immiscible two-phase flow in a porous medium: utilization of a Laplace transform boost. **86f:78055**
- Kondrat'ev, V. A. (with Oleinik, O. A.) Sur un problème de E. Sánchez-Palencia. (English summary) [On a problem of E. Sánchez-Palencia] **86c:35014**
- Muslenko, E. I. Control of the solution of certain parabolic problems in the neighborhood of an unstable stationary solution. (Russian) **86d:93023**
- Namasov, G. K. Energy estimates for solutions of boundary value problems for atypical third-order partial differential equations. (Russian) **86b:45022**
- Oleinik, O. A. See Kondrat'ev, V. A., **86c:35014**
- Stroock, D. W. See Fabes, E. B., **86g:35057**
- Ugowski, Henryk Some approximation and estimate theorems and their application to the theory of parabolic equations in a Banach space. **86d:35141**

35K22 Evolution equations (any order in the spatial derivatives)

[See also 58D25.]

- Chen, Yun Mei See Xu, Li Cun, **86c:35066**
- Diaz Dias, J. Idelfonso Results and methods concerning the finite extinction property for evolution equations. (Spanish) **86d:35062**
- Comparison results for nonlinear evolution equations. (Spanish. English summary) **86h:35060**
- Di Blasio, Gabriella Linear parabolic evolution equations in L^p -spaces. (Italian summary) **86i:35063**
- Duchon, Jean (with Robert, Raoul) Perturbation quasi-différentielle d'un semi-groupe régularisant dans une échelle d'espaces de Banach. (English summary) [Quasidifferential perturbation of a smoothing semigroup in a scale of Banach spaces] **86m:35082**
- Herrero, Miguel A. Evolution of the solutions of some diffusion problems with absorption. (Spanish) **86g:35092**
- Lumer, Günter Opérateurs d'évolution, comparaison de solutions, perturbations et approximations. (English summary) [Evolution operators, comparison of solutions, perturbations and approximations] **86j:35084**
- Robert, Raoul See Duchon, Jean, **86m:35082**
- von Wahl, Wolf Über das Verhalten für $t \rightarrow 0$ der Lösungen nichtlinearer parabolischer Gleichungen, insbesondere der Gleichungen von Navier-Stokes. [On the behavior for $t \rightarrow 0$ of the solutions of nonlinear parabolic equations, especially the equations of Navier-Stokes] **86b:35081**
- Xu, Li Cun (with Chen, Yun Mei) Local solvability and hypoellipticity for a class of evolution equations. (Chinese) **86c:35066**

secondary classifications (35K22)

- Arosio, Alberto Scattering theory for temporally inhomogeneous evolution equations in Banach space. (See **86e:49005**)
- Carl, S. Näherungslösungen gemischter Probleme bei partiellen Differentialgleichungen durch partielle Umkehrung der Differentialoperatoren. [Approximate solutions of mixed problems for partial differential equations, by means of partial inversion of the differential operators] **86m:35007**
- Desch, W. (with Lasiecka, I.; Schappacher, W.) Feedback boundary control problems for linear semigroups. **86m:93050**
- Dubois, Roger-Marie (with Lumer, Günter) Formule de Duhamel abstraite. [An abstract Duhamel formula] **86b:47070**
- Galaktionov, V. A. (with Kurdyumov, S. P.; Samarskii, A. A.) The method of steady states for nonlinear parabolic evolution problems. (Russian) **86e:35068**
- Hale, Jack K. (with Scheurle, Jürgen) Smoothness of bounded solutions of nonlinear evolution equations. **86d:34101**
- Kurdyumov, S. P. See Galaktionov, V. A. et al., **86e:35068**
- Kuttler, Kenneth L., Jr. The Galerkin method and degenerate evolution equations. **86i:34081**
- Labbas, Rabah (with Terreni, Brunello) Sommes d'opérateurs de type parabolique et elliptique. (English summary) [Sums of operators of parabolic and elliptic type] **86h:34071**
- Lasiecka, I. See Desch, W. et al., **86m:93050**
- Lumer, Günter Équations d'évolution, semi-groupes en espace-temps et perturbations. (English summary) [Evolution equations, semigroups in space-time, and perturbations] **86h:47063**
- See also Dubois, Roger-Marie, **86b:47070**
- Lunardi, Alessandra Interpolation spaces between domains of elliptic operators and spaces of continuous functions with applications to nonlinear parabolic equations. **86m:46036**
- Asymptotic exponential stability in quasilinear parabolic equations. **86j:35014**

- Miklavčič, Milan Stability for semilinear parabolic equations with noninvertible linear operator. **86d:34105**
- Orlovskii, D. G. See Prilepko, A. I., **86i:35141a** and **86i:35141b**
- Prilepko, A. I. (with Orlovskii, D. G.) Determination of the parameter of an evolution equation and inverse problems of mathematical physics. I. (Russian) **86i:35141a**
(with Orlovskii, D. G.) Determination of the parameter of an evolution equation and inverse problems of mathematical physics. II. (Russian) **86i:35141b**
- Samarakii, A. A. See Galaktionov, V. A. et al., **86e:35068**
- Schappacher, W. See Desch, W. et al., **86m:93050**
- Scheurle, Jürgen See Hale, Jack K., **86d:34101**
- Schiaffino, A. (with Tesi, A.) Linearized stability results in continuous interpolation spaces. **86d:34106**
- Sinestrari, E. Classical solutions of parabolic equations in Hölder spaces. (Italian summary) **86m:34062**
On the abstract Cauchy problem of parabolic type in spaces of continuous functions. **86g:34088**
- Sola-Morales, J. Destabilizing effects of the essential spectrum in semilinear PDEs. (Spanish) (See **86g:00009**)
- Straughan, Brian Conditional stability and symmetry in hydrodynamics and mathematical biology. **86f:35029**
- Svendsen, E. C. An integral formula for multidimensional evolution equations. **86e:47050**
- Terreni, Brunello See Labbas, Rabah, **86h:34071**
- Tesi, A. See Schiaffino, A., **86d:34106**
- Voigt, Jürgen Positivity in time dependent linear transport theory. **86h:82065**

35K25 Higher-order equations, general

secondary classifications (35K25)

- Gorbachuk, M. L. See Gorbachuk, V. I., **86g:34061**
- Gorbachuk, V. I. (with Gorbachuk, M. L.) ★Граничные задачи для дифференциально-операторных уравнений. (Russian) [Boundary value problems for operator-differential equations] **86g:34061**
- Wasiak, Wolfgang Wärmepolynome—Modell für besondere Lösungssysteme bei linearen partiellen Differentialgleichungen. [Heat polynomials—a model of particular solution systems for linear partial differential equations] **86d:35027**

35K30 Higher-order equations, initial value problems

- Cherepova, M. F. Smoothness of the solution of the Cauchy problem for a 2p-parabolic equation. (Russian) **86b:35082**
- Ėfendiev, M. I. Well-posedness of the Cauchy problem for parabolic equations in the scale of spaces of almost periodic functions of Sobolev type. (Russian. English and Azerbaijani summaries) **86h:35081**
- Grimaldi Piro, Anna (with Ragnedda, Francesco) Characterization of the solutions of a 2b-parabolic operator with initial data in BMO. **86f:35095**
- Ragnedda, Francesco See Grimaldi Piro, Anna, **86f:35095**

35K35 Higher-order equations, boundary value problems

- Ivasishen, S. D. Conjugate Green operators and correct solvability of parabolic boundary value problems in negative Hölder spaces. (Russian) **86g:35093**
- Mandras, Franco (with Porru, Giovanni) The Cauchy-Dirichlet problem for parabolic operators of order 2m. (Italian. English summary) **86d:35063**
- Porru, Giovanni See Mandras, Franco, **86d:35063**

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- Katayama, Tooru See Takagi, Tomoaki (Not in MR)
- Nicolaenko, B. (with Scheurer, Bruno) Remarks on the Kuramoto-Sivashinsky equation. **86d:80007**
- Sakamoto, Reiko Mixed problems for evolution equations. **86i:35084a**
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- Takagi, Tomoaki (with Katayama, Tooru) Singular optimal control problem for a single input and single output time-lag system with one control variable appearing linearly. (Japanese. English summary) (Not in MR)

35K40 Systems, general

- Belov, Yu. Ya. The splitting of parabolic equations. (Russian) **86g:35094**
- Bokhonov, Yu. E. A priori estimation for solutions of a second-order parabolic system with measurable coefficients. (Russian) **86h:35062**

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- Liu, Tai Ping Nonlinear stability of shock waves for viscous conservation laws. **86i:35088**

35K45 Systems, initial value problems

- Gorodetskii, V. V. Localization principle for solutions of the Cauchy problem for parabolic systems in the class of generalized infinite-order functions. (Russian) **86m:35083**
- Grabarska, Halina Integral operators for systems of parabolic equations. **86e:35070**
- Postolake, M. D. Stabilization in the mean with respect to time of solutions of the Cauchy problem for parabolic systems of equations with variable coefficients. (Russian) **86f:35085**
- Rozhkova, M. N. Investigation of the Cauchy problem for a quasilinear parabolic system by means of Markov random processes. (Russian) **86b:35083**

35K50 Systems, boundary value problems

- Drin', M. M. (with Ivasishen, S. D.) The Green matrix of a general boundary value problem for a system with discontinuous coefficients that is parabolic in the sense of I. G. Petrovskii. (Russian. English summary) **86g:35095**
- Fattorusso, Luisa Weak solutions of the Cauchy-Dirichlet problem for parabolic systems in unbounded domains. (Italian. English summary) **86c:35071**
- Florito, Giovanni A particular class of second-order linear parabolic systems with measurable coefficients. (Italian. English summary) **86k:35057**
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- de Mottoni, P. (with Schiaffino, A.; Tesi, A.) On stable space dependent stationary solutions of a competition system with diffusion. (German and Russian summaries) **86a:35068**
- Schiaffino, A. See de Mottoni, P. et al., **86a:35068**
- Tesi, A. See de Mottoni, P. et al., **86a:35068**
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- Sperber, W. Zur Existenz einer Lösung für ein bestimmtes parabolisches Randsteuerproblem. (English and Russian summaries) [On the existence of a solution for a certain parabolic boundary control problem] **86a:49006**

35K55 Nonlinear equations and systems

- Abourjaily, Chaouki Étude sur la comparaison de deux problèmes de Stefan. [Study of the comparison of two Stefan problems] **86a:35069**
- Akhromeeva, T. S. (with Malinetskii, G. G.) New properties of nonlinear dissipative systems. (Russian) **86d:35064**
- Alt, Wolfgang Degenerate diffusion equations with drift functionals modelling aggregation. **86j:35086**
- Bates, P. W. Travelling waves in radially symmetric parabolic systems. **86m:35084**
- Belingeri, Carlo (with de Mottoni, P.) On some parabolic semilinear equations in presence of unstable stationary solutions. (Italian summary) **86g:35096**
- Belolipetskii, A. A. (with Ter-Krikorov, A. M.) Fundamental solutions of the nonlinear heat equation. (Russian) **86a:35070**
- Bénilan, P. (with Touré, Hamidou) Sur l'équation générale $u_t = \varphi(u)_{xx} - \psi(u)_x + v$. (English summary) [On the general equation $u_t = \varphi(u)_{xx} - \psi(u)_x + v$] **86h:35083**
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- Hohenberg, P. C. (with Kramer, Lorenz; Riecke, Hermann) Effects of boundaries on one-dimensional reaction-diffusion equations near threshold. 86k:35068
- Klaassen, Gene A. (with Troy, W. C.) The existence, uniqueness, and instability of spherically symmetric solutions of a system of reaction-diffusion equations. 86c:35076
- Kramer, Lorenz See Hohenberg, P. C. et al., 86k:35068
- Lacey, A. A. See Burnell, J. G. et al., 86g:35105
- Ladde, G. S. (with Lakshmikantham, V.; Vatsala, A. S.) Existence of coupled quasilinear systems of nonlinear reaction-diffusion equations. 86j:35098
- Lakshmikantham, V. See Ladde, G. S. et al., 86j:35098
- Leung, Anthony W. Nonlinear density-dependent diffusion for competing species interactions: large-time asymptotic behaviour. 86i:35070
- Liu, Bao Ping (with Pao, C. V.) Almost periodic plane wave solutions for reaction-diffusion equations. 86c:35077
- Maddalena, Lucia Existence of global solution for reaction-diffusion systems with density dependent diffusion. 86c:35075
- McKean, H. P. (with Moll, V.) A threshold for a caricature of the nerve equation. 86m:35088
- Mimura, Masayasu See El, Shin-Ichiro, 86c:35073
- Moll, V. See McKean, H. P., 86m:35088
- Mooney, J. R. Steady states of a reaction-diffusion system on the off-centre annulus. 86a:35079
- Naito, Koichiro On convergence and asymptotically almost periodicity of solutions of reaction-diffusion systems. 86j:35099
- Nakao, Mitsuhiro On a system of nonlinear diffusion equations. 86b:35098
- LP-estimates of solutions of some nonlinear degenerate diffusion equations. 86f:35101
- Pachpatte, B. G. On nonlinear coupled reaction-diffusion equations. 86i:35071
- Pao, C. V. See Liu, Bao Ping, 86c:35077
- Riecke, Hermann See Hohenberg, P. C. et al., 86k:35068
- Rothe, Frans ★ Global solutions of reaction-diffusion systems. 86d:35071
- Roytburd, Victor A Hopf bifurcation for a reaction-diffusion equation with concentrated chemical kinetics. 86m:35089
- Sabina, J. (with Fraile Peláez, José María) Propagation velocity and amplitude of wave fronts in RD systems. (See 86g:00009)
- See also Fraile Peláez, José María, 86d:35069
- Schatzman, M. Nonlinear evolution equations with a convolution term involved in some neurophysiological models. (See 86g:92002)
- Sleeman, B. D. (with Tuma, E.) On exact solutions of a class of reaction-diffusion equations. 86d:35072
- Smoller, Joel A. The complete solution space for a system of reaction-diffusion equations. 86h:35067
- Sparing, H.-D. See Gajewski, H., 86c:35074 and (86d:65013)
- Troy, W. C. See Ermentrout, G. B. et al., 86a:35078 and Klaassen, Gene A., 86c:35076
- Tuma, E. See Sleeman, B. D., 86d:35072
- Uchiyama, Kōhei Asymptotic behavior of solutions of reaction-diffusion equations with varying drift coefficients. 86m:35090
- Vatsala, A. S. See Ladde, G. S. et al., 86j:35098
- Wake, G. C. See Burnell, J. G. et al., 86g:35105
- Ye, Qi Xiao A brief introduction to reaction-diffusion equations. (Chinese) 86d:35073

secondary classifications (35K57)

35K57 Reaction-diffusion equations

- Ariotti, L. (with Busoni, G.) Nonlinear neutron diffusion with poisoning effects. 86i:35069

- Erneux, Thomas (with Matkowsky, Bernard J.; Reiss, Edward L.) Singular bifurcation in reaction-diffusion systems. (See 86g:92003)
- Fife, Paul C. Propagator-controller systems and chemical patterns. (See 86f:80012)
- Gröger, Konrad Asymptotic behavior of solutions to a class of diffusion-reaction equations. 86a:35019
- Hunding, Axel Bifurcations of nonlinear reaction-diffusion systems in oblate spheroids. 86b:92001
- Joly, Ghyslain See Kernevas, J.-P. et al., 86h:92014
- Källén, Anders Thresholds and travelling waves in an epidemic model for rabies. 86h:92042
- Kernevas, J.-P. (with Joly, Ghyslain; Sharan, M.) Analysis and optimization of systems with multiple steady states. 86h:92014
- Koga, Shinji Schrödinger equation approach to collision phenomena in reaction-diffusion systems. 86d:80011
- Lacey, A. A. See Burnell, J. G. et al., 86j:35055
- Laser, A. C. See Cosner, Chris, 86j:92030
- Lemarchand, H. Asymptotic solution of the master equation for a general reaction-diffusion system near a symmetry-breaking transition. 86g:35176
- Levin, Simon A. (with Segel, Lee A.) Pattern generation in space and aspect. 86i:92046
- Maginu, Kenjiro Geometrical characteristics associated with stability and bifurcations of periodic travelling waves in reaction-diffusion systems. 86m:35012
- Mahaffy, J. M. See Pao, C. V., 86m:92015
- Manoranjan, V. S. Bifurcation studies in reaction-diffusion. II. 86e:65133
- Mastroianni, C. (with Montreone, M.) Invariant regions and asymptotic behaviour for the numerical solution of reaction-diffusion systems by a class of alternating direction methods. 86c:65154
- Matkowsky, Bernard J. See Erneux, Thomas et al., (86g:92003)
- Montreone, M. See Mastroianni, C., 86h:65154
- de Mottoni, P. See Dal Passo, Roberta, 86d:92017
- Pao, C. V. (with Mahaffy, J. M.) Qualitative analysis of a coupled reaction-diffusion model in biology with time delays. 86m:92015
- Rautmann, R. Eine Klasse asymptotisch stabiler autonomer Systeme und Normschranken für spezielle Reaktions-Diffusions-Prozesse. (English and Russian summaries) [A class of asymptotically stable autonomous systems and norm bounds for special reaction-diffusion processes] 86k:34049
- Reiss, Edward L. See Erneux, Thomas et al., (86g:92003)
- Schlaifflin, A. (with Schmitt, Klaus) Periodic solutions of a class of nonlinear evolution equations. 86c:35010
- Schmitt, Klaus See Schlaifflin, A., 86c:35010
- Segel, Lee A. See Levin, Simon A., 86i:92046
- Sharan, M. See Kernevas, J.-P. et al., 86h:92014
- Wake, G. C. See Burnell, J. G. et al., 86j:35055
- 35K60 Nonlinear boundary value problems for linear equations and systems; boundary value problems for nonlinear equations and systems**
- Adshalova, N. A. Investigation of the generalized solution of a multidimensional mixed problem for a class of fourth-order semilinear parabolic equations with boundary conditions of Riquier type. (Russian. English and Azerbaijani summaries) 86b:35099
- Baras, P. Non-unicité des solutions d'une équation d'évolution non-linéaire. (English summary) [Nonuniqueness of the solutions of a nonlinear evolution equation] 86b:35100
- Berryman, James G. See Holland, Charles, 86f:35103
- Chabrowski, J. On the nonlocal problem with a functional for parabolic equation. 86f:35102
- Danilyuk, I. I. An initial-boundary value problem for the quasilinear heat equation with discontinuous coefficients. (Russian) 86c:35078
- Dzhangveladze, T. A. Solvability of the first boundary value problem for a nonlinear integro-differential equation of parabolic type. (Russian. English and Georgian summaries) 86g:35106
- Galaktionov, V. A. (with Kurdyumov, S. P.; Samarskii, A. A.) A parabolic system of quasilinear equations. I. (Russian) 86c:35079
- Glagoleva, R. Ya. A problem with mixed boundary conditions for a quasilinear parabolic equation. (Russian) 86i:35072
- Hale, Jack K. (with Rocha, Carlos) Bifurcations in a parabolic equation with variable diffusion. 86h:35068
- Heinrich, Jörg Zur Lösbarkeit der Anfangs-Randwertaufgabe $(\partial/\partial t)u - D(x, t, u)\Delta u = f$ im Sobolev-Raum. (English and Russian summaries) [On the solvability of the initial-boundary value problem $(\partial/\partial t)u - D(x, t, u)\Delta u = f$ in the Sobolev space] 86h:35069
- Holland, Charles (with Berryman, James G.) Exponential convergence for nonlinear diffusion problems with positive lateral boundary conditions. 86f:35103
- Kamburov, V. D. Construction of a periodic solution of a nonlinear boundary value problem of parabolic type. (Russian) (See 86d:00006)
- Kurdyumov, S. P. See Galaktionov, V. A. et al., 86c:35079
- Ladyshenskaya, O. A. (with Ural'tseva, N. N.) Estimates of the Hölder constant for bounded solutions of second-order quasilinear parabolic equations of nondivergent type. (Russian) 86c:35080
- Lamonov, S. A. See Skrypnik, I. V., 86c:35077
- Magenes, Enrico (with Verdi, C.; Visintin, A.) Semigroup approach to the Stefan problem with nonlinear flux. (Italian summary) 86m:35091
- Mamedguseinov, R. K. Regularity of boundary points for second-order degenerate quasilinear parabolic equations. (Russian. English and Azerbaijani summaries) 86c:35076
- Ni, Wei Ming (with Sacks, Paul) Singular behavior in nonlinear parabolic equations. 86i:35073
- Redlinger, Reinhard Existence theorems for semilinear parabolic systems with functional. 86a:35080
- Rocha, Carlos See Hale, Jack K., 86h:35068
- Sacks, Paul See Ni, Wei Ming, 86i:35073
- Samarskii, A. A. See Galaktionov, V. A. et al., 86c:35079
- Skrypnik, I. V. (with Lamonov, S. A.) The first boundary value problem for quasilinear parabolic equations in domains with a fine-grained boundary. (Russian. English summary) 86c:35077
- Ural'tseva, N. N. See Ladyshenskaya, O. A., 86c:35080
- Verdi, C. See Magenes, Enrico et al., 86m:35091
- Visintin, A. See Magenes, Enrico et al., 86m:35091
- Yoshikawa, Atsushi On the behavior of the solutions to the Lamm equation of the ultracentrifuge. 86f:35104
- secondary classifications (35K60)**
- Akhromeeva, T. S. (with Malinetskii, G. G.) Simplest types of ordering in open dissipative systems. (Russian) 86k:00016
- Bernardi, Christine (with Raugel, Geneviève) Approximation numérique de certaines équations paraboliques non linéaires. (English summary) [Numerical approximation of some nonlinear parabolic equations] 86a:65097
- Chandra, Jagdish (with Ladde, G. S.) Comparison theorems and stochastic boundary value problems. 86c:35046
- Chen, Gen Shun (with Leung, Anthony W.) Nonlinear multigroup neutron-flux systems: blowup, decay, and steady states. 86j:82078
- Cosner, Chris (with Schindler, Frank) Upper and lower solutions for systems of second order equations with nonnegative characteristic form and discontinuous nonlinearities. 86f:35006
- Duriković, Vladimir A nonlinear elliptic boundary value problem generated by a parabolic problem. (Russian and Slovak summaries) 86g:35075
- Filippov, L. K. Steady state conditions for the diffusion equation with a nonlinear source function. (Russian) 86c:70044
- Ladde, G. S. See Chandra, Jagdish, 86c:35046
- Ladyshenskaya, O. A. (with Ural'tseva, N. N.) Solvability of the first boundary value problem for quasilinear elliptic and parabolic equations in the presence of singularities. (Russian) 86h:35060
- Laser, A. C. (with McKenna, P. J.) Multiplicity results for a class of semilinear elliptic and parabolic boundary value problems. 86i:35049
- Leung, Anthony W. See Chen, Gen Shun, 86j:82078
- Lunardi, Alessandra Global solutions of abstract quasilinear parabolic equations. 86j:34071
- Malinetskii, G. G. See Akhromeeva, T. S., 86k:00016
- McKenna, P. J. See Laser, A. C., 86i:35049
- de Mottoni, P. Space structures of some migrating populations. 86c:92024
- Bifurcation of periodic solutions for periodic quasilinear parabolic equations and systems. (Russian summary) 86k:58025
- Pluschke, Volker Anwendung der Rothe-Methode auf eine quasilineare parabolische Differentialgleichung. [Application of the Rothe method to a quasilinear parabolic differential equation] 86c:65149
- Profant, M. (with von Seggern, R.) Die numerische Behandlung Volterraischer Integralgleichungen zur Lösung der Diffusionsgleichung. [The numerical treatment of Volterra integral equations for the solution of the diffusion equation] 86i:65046
- Raugel, Geneviève See Bernardi, Christine, 86a:65097
- Sager, Herbert C. The Sturm-Liouville equation with time-dependent boundary conditions. 86a:34050
- Schindler, Frank See Cosner, Chris, 86f:35006
- von Seggern, R. See Profant, M., 86i:65046
- Ural'tseva, N. N. See Ladyshenskaya, O. A., 86h:35060
- Wiegner, Michael On the asymptotic behaviour of solutions of nonlinear parabolic equations. 86b:35017
- 35K65 Equations and systems of degenerate type**
- Agasv, G. N. The Cauchy problem for quasilinear degenerate equations in spaces with a weight. (Russian. English and Azerbaijani summaries) 86m:35092
- Alt, Hans Wilhelm (with di Benedetto, E.) Flow of oil and water through porous media. (French summary) 86a:35081
- Aronson, D. G. (with Caffarelli, L.; Vázquez, J. L.) Interfaces with a corner point in one-dimensional porous medium flow. 86h:35070
- di Benedetto, E. See Alt, Hans Wilhelm, 86a:35081
- Borisov, V. G. A boundary value problem for a parabolic system of equations with a small parameter, degenerating into an elliptic one. (Russian) 86a:35082
- Buonocore, Pasquale Symmetrization in degenerate parabolic equations. (Italian. English summary) 86c:35078
- Buttu, Anna The Cauchy-Dirichlet problem for a second-order degenerate parabolic operator. (Italian. English summary) 86d:35074
- Caffarelli, L. See Aronson, D. G. et al., 86h:35070
- Chen, Ya Zhe Hölder estimates for solutions of uniformly degenerate quasilinear parabolic equations. 86k:35069
- Chiarenza, Filippo (with Frasca, Michele) Boundedness for the solutions of a degenerate parabolic equation. 86c:35081
- (with Serapioni, Raul P.) A Harnack inequality for degenerate parabolic equations. 86c:35083
- Dzhamalov, R. I. The boundary behavior of solutions of second-order degenerate parabolic equations. (Russian. English and Azerbaijani summaries) 86d:35075
- Ebihara, Yukiyoshi On classical solutions to degenerate quasilinear parabolic equations. 86c:35083
- Frasca, Michele See Chiarenza, Filippo, 86c:35081
- Garofalo, Nicola Dirichlet problem for singular parabolic equations: uniqueness of smooth flat solutions in a finite cylinder. (Italian summary) 86c:35084
- Gurtin, Morton E. (with MacCamy, Richard C.; Socolovsky, Eduardo A.) A coordinate transformation for the porous media equation that renders the free boundary stationary. 86d:35076

- Herrero, Miguel A. On a class of nonlinear degenerate parabolic equations. **86a:35083**
- Kalashnikov, A. S. Dependence of properties of solutions of parabolic equations in unbounded domains on the behavior of coefficients at infinity. (Russian) **86m:35093**
- Propagation of perturbations in processes described by degenerate parabolic equations with nonpower nonlinearities. (Russian. English summary) **86i:35074**
- Kamynin, L. I. Uniqueness of the solution of the first boundary value problem in an unbounded domain for a second-order parabolic equation. (Russian) **86b:35071**
- Kutev, Nikolai D. On some boundary value problems for a class of quasilinear degenerate parabolic equations. (Russian summary) **86b:35073**
- On Neuman's problem for a class of degenerate quasilinear parabolic equations. **86b:35101**
- MacCamy, Richard C. See Gurtin, Morton E. et al., **86d:35076**
- Mal'takaya, A. P. The first boundary value problem in a half space for a degenerate parabolic equation. (Russian) **86f:35105**
- Mamedguseinov, R. K. The regularity of boundary points for second-order degenerate linear parabolic equations. (Russian. English and Azerbaijani summaries) **86a:35084**
- Marinov, M. L. (with Rangelov, Tsvytko V.) On the support of the solutions of some degenerate nonlinear parabolic equations. **86c:35085**
- Matfichuk, M. I. The Cauchy problem for a class of degenerate parabolic systems. (Russian) **86c:35086**
- Nakao, Mitsuhiro Existence, nonexistence and some asymptotic behaviour of global solutions of a nonlinear degenerate parabolic equation. **86b:35102**
- Rangelov, Tsvytko V. See Marinov, M. L., **86c:35085**
- Serapioni, Raul P. See Chiarenza, Filippo, **86c:35082**
- Shopolov, N. N. The second boundary value problem for a mixed parabolic equation with nonlocal initial conditions. I. (Bulgarian. French and Russian summaries) **86f:35106**
- The second boundary value problem for a mixed parabolic equation with nonlocal initial conditions. II. (Bulgarian. French and Russian summaries) **86f:35107**
- Nonlocal boundary value problem for a mixed equation of heat conduction in an unbounded domain. I. (Bulgarian. French and Russian summaries) **86f:35108**
- Socolovsky, Eduardo A. See Gurtin, Morton E. et al., **86d:35076**
- Terzenov, S. A. The first boundary value problem for some parabolic equations that degenerate in the interior of the domain. (Russian) **86i:35075**
- Estimate of the normal derivative on manifolds of degeneration. (Russian) (Not in MR)
- Vásquez, J. L. Symmetrization in nonlinear parabolic equations. **86b:35103**
- See also Aronson, D. G. et al., **86b:35070**

secondary classifications (35K65)

- Akamatsu, Toyohiro Hypocoellipticity of some degenerate parabolic operators. **86j:35037**
- Alikakos, Nicholas D. (with Rostamian, R.) On the uniformization of the solutions of the porous medium equation in R^N . **86e:76056**
- Esposito, Vincenzo Some fourth-order degenerate elliptic-parabolic equations. (Italian. English summary) **86j:35111**
- Lair, Alan V. Uniqueness for a forward backward diffusion equation. **86j:35091**
- Mikhailov, K. I. Boundary value problems for a third-order equation of parabolic type. (Bulgarian. French and Russian summaries) **86b:35145**
- Nakao, Mitsuhiro On a system of nonlinear diffusion equations. **86b:35098**
- Periodic solutions of some nonlinear degenerate parabolic equations. **86d:35013**
- Ōtani, Mitsuharu On certain second order ordinary differential equations associated with Sobolev-Poincaré-type inequalities. **86m:34015**
- Rostamian, R. See Alikakos, Nicholas D., **86e:76056**
- Schechter, Ervin The generalized solution of a nonlinear degenerate parabolic equation and its numerical computation. **86h:65131**
- Shopolov, N. N. Gevrey's problem for a mixed parabolic equation with two perpendicular lines of degeneracy and nonlocal initial conditions. (Bulgarian. French and Russian summaries) **86a:35103**
- The second boundary value problem for a mixed parabolic equation with two perpendicular lines of degeneracy and nonlocal initial conditions. (Bulgarian. French and Russian summaries) **86a:35104**
- Gevrey's problem for a mixed parabolic equation with two perpendicular lines of degeneracy and with nonlocal initial and boundary conditions. (Bulgarian. French and Russian summaries) **86f:35131**
- Soltanov, K. N. Some embedding theorems and their applications to nonlinear equations. (Russian) **86g:46048**
- Werner, K.-D. An observation problem for the Bessel differential operator. **86c:93021**
- Zhao, Jun Ning A class of quasilinear degenerate elliptic and degenerate parabolic equations of second order. (Chinese. English summary) **86a:35059**

35K70 Ultraparabolic, pseudoparabolic problems

- Kondrashkov, A. V. The Goursat problem for a pseudoparabolic equation. (Russian) **86c:35079**
- Lefterov, S. S. Analytic first integrals of pseudoparabolic systems with analytic nonlinearity. (Russian. English and Bulgarian summaries) **86b:35104**
- Analytic first integrals of a class of inhomogeneous nonlinear equations of pseudoparabolic type. (Bulgarian. English and Russian summaries) **86b:35105**
- Zheng, Si Ning The initial-boundary value problem for a class of quasilinear ultraparabolic equations. (Chinese. English summary) **86b:35106**

secondary classifications (35K70)

- Mamayusupov, M. Sh. Uniqueness of reconstruction of the right-hand side of a pseudoparabolic equation. (Russian) **86d:35144**
- A multidimensional inverse problem for a pseudoparabolic equation in a linearized formulation. (Russian) **86d:35145**
- The problem of determining coefficients of a pseudoparabolic equation. (Russian) **86d:35146**
- An inverse problem for a pseudoparabolic equation in a linearized formulation. (Russian) **86m:35154**

35K85 Unilateral problems; variational inequalities [See also 35R35, 49A29.]

- Alkhanova, R. I. See Atakishieva, R. Kh., **86a:35085**
- Atakishieva, R. Kh. (with Alkhanova, R. I.) A class of variational degenerate parabolic inequalities of higher order. (Russian. English and Azerbaijani summaries) **86a:35085**
- Naumann, Joachim *Einführung in die Theorie parabolischer Variationsungleichungen. (German) [Introduction to the theory of parabolic variational inequalities] **86c:35080**
- Rubinstein, Lev Free boundary problem for a nonlinear system of parabolic equations, including one with reversed time. **86d:35077**
- secondary classifications (35K85)
- Da Prato, G. Some results on stationary Bellman equation in Hilbert spaces. **86i:49031**
- Garroni, M. G. On bilateral evolution problems of nonvariational type. (Italian summary) **86j:35074**
- Marchi, Silvana (with Norando, Tullia) Homogenisation estimates for variational inequality of parabolic type. (Italian summary) **86j:49021**
- Naumann, Joachim Sur la régularité des solutions d'une classe d'inéquations variationnelles paraboliques. (English summary) [On the regularity of solutions of a class of parabolic variational inequalities] **86a:49012**
- Norando, Tullia See Marchi, Silvana, **86j:49021**
- Pawlow, I. Approximation of an evolution variational inequality arising from free boundary problems. **86a:49013**
- Song, Chang Ho Rothe's and penalty methods for monotone parabolic variational inequalities of the first kind. (Korean. English summary) **86f:49093**
- Yamada, Naoki A system of parabolic variational inequalities associated with a stochastic switching game. **86g:49014**

35K99 None of the above, but in this section

- Catté, Francine Application de la théorie des semi-groupes non linéaires pour résoudre $du/dt + \max A_i u = f$. [Applying nonlinear semigroup theory to solve $du/dt + \max A_i u = f$] **86c:35087**
- Colaps, Gennaro A semigroup generated by a degenerate quasielliptic differential operator. (Italian. English summary) **86c:35081**
- Doppel, K. (with Jacob, Niels) On an evolution equation for a nonhyperbolic linear partial differential operator from stochastic. (German and Russian summaries) **86g:35107**
- Herron, Isom H. Floquet theory for the stability of boundary layer flows. **86b:35107**
- Jacob, Niels See Doppel, K., **86g:35107**
- Khrychev, D. A. Approximate solution of systems of moment equations. (Russian) **86m:35094**
- Muslenko, E. I. Control of the solution of some parabolic problems in the neighborhood of an unstable stationary solution. (Russian) **86h:35073**
- Narchaev, A. See Selsev, Yu. B. et al., **86i:35076**
- Nguyễn Văn Gia Two-dimensional boundary value problem of the diffusion. **86k:35070**
- Nurmuradov, A. See Selsev, Yu. B. et al., **86i:35076**
- Roşculeţ, M. N. Integral operators that generalize differential equations. VIII. Mean value formulas for a class of partial differential equations of parabolic type. (Romanian. French summary) **86c:35088**
- Selsev, Yu. B. (with Nurmuradov, A.; Narchaev, A.) Surfaces impermeable to solutions of parabolic equations. (Russian. English summary) **86i:35076**

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- Acquistapace, Paolo (with Terreni, Brunello) Une méthode unifiée pour l'étude des équations linéaires non autonomes, paraboliques dans les espaces de Banach. (English summary) [A unified method for studying nonautonomous linear parabolic equations in Banach spaces] **86i:34078**
- Ahmed, N. U. (with Biswas, S. K.) Existence of solutions and stability of a class of parabolic systems perturbed by generalized white noise on the boundary. **86k:35159**
- Balocchi, Claudio Uniformly stable schemes for discretizing evolution problems. (Italian. English summary) **86m:65106**
- Balabane, M. (with Emamirad, H.) Pseudodifferential parabolic systems in $L^p(R^n)$. **86m:35157**
- Banks, H. T. (with Kunisch, K.) The linear regulator problem for parabolic systems. **86h:49036**
- Bénilan, P. A strong regularity L^p for solution of the porous media equation. **86c:35018**
- Berger, Marc Aron (with Sloan, Alan D.) Characteristic methods for multidimensional evolution equations. **86k:35160**
- Biswas, S. K. See Ahmed, N. U., **86k:35159**
- Brychcy, Stanisław Approximate iterative method and the existence of solutions of nonlinear parabolic differential-functional equations. **86b:35190**
- Chen, Ren Zhao Regularity of solutions of population evolution equations and applications in population control. (Chinese. English summary) **86i:92034**
- Comincelli, V. (with Torelli, A.; Poggiosi, C.; Reggiani, Carlo) A four-state cross bridge model for muscle contraction. Mathematical study and validation. **86e:92017**
- Degance, A. E. (with Johns, L. E.) The theory of dispersion of chemically active solutes in a rectilinear flow field: the vector problem. **86h:80011**
- De Giorgi, Ennio (with Degiovanni, Marco; Tosques, Mario) Recent developments in Γ -convergence in elliptic, parabolic and hyperbolic problems. (Italian) **86k:49013**
- Degiovanni, Marco See De Giorgi, Ennio et al., **86k:49013**
- Denisov, V. N. (with Repnikov, V. D.) Stabilization of the solution of the Cauchy problem for parabolic equations. (Russian) **86c:35013**
- Di Blasio, Gabriella (with Kunisch, K.; Sinestrari, E.) The solution operator for a partial differential equation with delay. (Italian summary) **86j:35153**
- (with Kunisch, K.; Sinestrari, E.) Stability for abstract linear functional differential equations. **86j:35152**
- Dhangveladze, T. A. A nonlinear integro-differential equation of parabolic type. (Russian) **86j:45021**

- Ensamirad, H. See Balabane, M., 86m:35157
- Fursikov, A. V. Solvability of a chain of equations for space-time moments. (Russian) 86i:35137
- Hlavacek, Vladimir See Kim, Sang H., 86b:80020
- Hoff, David (with Smoller, Joel A.) Error bounds for finite-difference approximations for a class of nonlinear parabolic systems. 86i:85051
- Hulken, Gerhard Ricci deformation of the metric on a Riemannian manifold. 86k:53059
- Iwasaki, Chisato Construction of the fundamental solution for degenerate parabolic systems and its application to construction of a parametrix of \square_b . 86f:35035
- John, L. E. See Degance, A. E., 86h:80011
- Kemnitz, Hans Polynomial expansions for solutions of the system $D_{X_i}^k U(X_1, \dots, X_r) = D_{X_i} U(X_1, \dots, X_r)$. 86f:35038
- Kim, Sang H. (with Hlavacek, Vladimir) On the dynamics of parabolic equations describing diffusion, convection and a chemical reaction. 86b:80020
- Kröe, Paul Singularité des solutions de certaines équations de Fokker-Planck généralisées. (English summary) [Singularity of the solutions of some generalized Fokker-Planck equations] 86i:60154
- Kunisch, K. (with Schappacher, W.; Webb, G. F.) Nonlinear age-dependent population dynamics with random diffusion. 86h:92043
See also Banks, H. T., 86h:49036; Di Blasio, Gabriella et al., 86j:35152 and 86j:35153
- Leha, Gottlieb (with Ritter, Gunter) On diffusion processes and their semigroups in Hilbert spaces with an application to interacting stochastic systems. 86a:60104
- Lenyuk, M. P. Branching fundamental solutions of the Cauchy problem for invariant B -parabolic operators. (Russian) 86d:35006
- Lumer, Gunter Équations de diffusion générales sur des réseaux infinis. [General diffusion equations on infinite networks] 86i:31010
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- Kulikovskii, A. G. (with Slobodkina, F. A.) On the stability of one-dimensional stationary solutions of hyperbolic systems of differential equations containing points at which one characteristic velocity becomes zero. **86j:35013**
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- 35L45 First-order systems, initial value problems
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- Gromyak, M. I. Justification of an averaging scheme for first-order hyperbolic systems. (Russian. English summary) **86a:35024**
- Jannelli, Enrico Linear Kovalevskian systems with time-dependent coefficients. **86d:35007**
- Kasakevich, E. I. Asymptotic integration of a Cauchy problem. (Russian. English and Lithuanian summaries) **86g:35032**
- Mutchler, Carl N. The flat Cauchy problem for radially hyperbolic operators from a characteristic manifold of high codimension. **86j:35102**
- Nishitani, Tatsuo Local energy integrals for effectively hyperbolic operators. I, II. **86f:35112**
- Orlovskii, D. G. The inverse Cauchy problem for hyperbolic systems. (Russian) **86g:35204**
- 35L50 First-order systems, boundary value problems
- Georgiev, V. S. The Kreiss condition for dissipative hyperbolic systems of constant multiplicity. (Italian summary) **86f:35118**
- Kubota, Kaji Parametrices and propagation of singularities near gliding points for mixed problems for symmetric hyperbolic systems. I. **86i:35085a**
- Parametrices and propagation of singularities near gliding points for mixed problems for symmetric hyperbolic systems. II. **86i:35085b**
- Mei'nik, Z. O. A problem with unknown boundaries for a first-order hyperbolic system. (Russian) **86d:35084**
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- Georgiev, V. S. Wave fronts of solutions to boundary problems for symmetric dissipative systems. **86i:35155**
- McNabb, A. An uncoupling procedure for a class of coupled linear partial differential equations. **86h:35029**

- Pleshchinskaya, I. E. Optimal control of boundary value functions in problems for linear hyperbolic systems. (Russian) **86f:49016**
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 Marshall, Bernard L^p - L^q multipliers of anisotropic wave equations. **86c:35097**
 Shkhanukov, M. Kh. A class of well-posed boundary value problems for second-order hyperbolic systems with nonsplittable principal sides. (Russian) **86j:35105**
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 Teutsunava, M. T. A boundary value problem for systems of linear partial differential equations of hyperbolic type. (Russian. English and Georgian summaries) **86b:35080**
 Villani, Alfonso A boundary value problem for a linear hyperbolic system on an unbounded set. (Italian. English summary) **86b:35125**

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- Gourdin, Daniel (with Kadri, Hamid) Un théorème d'unicité pour le problème de Cauchy relatif à une classe de systèmes différentiels linéaires à caractéristiques multiples. (English summary) [A theorem of uniqueness for the Cauchy problem related to a class of linear differential systems with multiple characteristics] **86k:35002**
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35L60 First-order nonlinear equations and systems

- Aliev, S. Ya. (with Maistrenko, Yu. L.) Global smooth solvability of a nonlinear boundary value problem for a quasilinear hyperbolic system. (Russian) **86a:35087**
 Bardos, C. Introduction aux problèmes hyperboliques non linéaires. [Introduction to nonlinear hyperbolic problems] **86k:35082**
 Bykhovskii, È. B. Qualitative investigation of generalized solutions of quasilinear hyperbolic 2×2 systems using the entropy condition. (Russian) **86d:35085**
 Cinquini, Silvio Efficiency of a uniqueness theorem for systems of partial differential equations. (Italian) **86b:35081**
 Genov, A. (with Metodiev, K.) A priori estimates for the solution of a quasilinear hyperbolic system. (Bulgarian. English and Russian summaries) **86a:35088**
 Giga, Yoshikazu (with Miyakawa, Tetsuro; Oharu, Shinnosuke) A kinetic approach to general first order quasilinear equations. **86d:35086**
 Gittel, H.-P. Über das Goursat-Problem für quasilineare hyperbolische Systeme partieller Differentialgleichungen erster Ordnung mit zwei unabhängigen Variablen. (English and Russian summaries) [On the Goursat problem for quasilinear hyperbolic systems of first-order partial differential equations with two independent variables] **86m:35103**
 Hosono, Yuso (with Niizeki, Syôzô) Wave front solution of some competition models with migration effect. **86i:35086**
 Illner, Reinhard Mild solutions of hyperbolic systems with L^1_+ and L^∞_+ initial data. **86f:35119**
 Jannelli, Enrico Analytic solutions of nonlinear hyperbolic systems. (Italian. English summary) (See **86m:35003**)
 Khoma, G. P. Analytic dependence of solutions of hyperbolic equations on a parameter. (Russian) **86m:35104**
 Krasnyuk, I. B. (with Maistrenko, Yu. L.) Stability and asymptotic periodicity of solutions of the mixed problem for a system of hyperbolic equations. (Russian) **86b:35126**
 Krylov, A. V. Asymptotic integration of first-order hyperbolic systems. (Russian. English and Lithuanian summaries) **86g:35119**
 Li, Da Qian (with Yu, Wen Ci) Problèmes d'onde centrée pour les systèmes hyperboliques quasi linéaires et applications. (English summary) [Centered wave problems for quasilinear hyperbolic systems and applications] **86d:35087**
 (with Shi, Jia Hong) Global solvability in the whole space for a class of first order quasilinear hyperbolic systems. **86i:35087**
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 Maistrenko, Yu. L. See Aliev, S. Ya., **86a:35087** and Krasnyuk, I. B., **86b:35126**
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 Rascle, Michel The Riemann problem for a nonlinear nonstrictly hyperbolic system arising in biology. **86f:35120**
 Rybka, Piotr The behaviour of weak singularities on characteristic surfaces with multiplicity change. (Russian summary) **86g:35120**
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 Wang, Jian Hua Some results on boundedness of solutions of systems of inhomogeneous quasilinear hyperbolic equations. (Chinese. English summary) **86b:35127**

- Wiggins-Grandison, M. D. (with Mickens, Ronald E.) Exact solutions of nonlinear unidirectional wave equations. **86k:35084**
 Xiao, Ling (with Li, Da Qian) Global smooth solution of Cauchy problems for a class of quasilinear hyperbolic systems. **86a:35089**
 Yu, Wen Ci See Li, Da Qian, **86d:35087**

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- Barker, John W. Interactions of fast and slow waves in problems with two time scales. **86b:35008**
 Biler, Piotr Convergence of solutions of generalized Korteweg-de Vries-Burgers equations to those of first order equations. **86k:35130**
 Asymptotic behaviour in time of solutions to some equations generalizing the Korteweg-de Vries-Burgers equation. **86k:35131**
 Crandall, Michael G. (with Evans, L. C.; Lions, Pierre-Louis) Some properties of viscosity solutions of Hamilton-Jacobi equations. **86a:35031**
 Evans, L. C. See Crandall, Michael G. et al., **86a:35031**
 Kato, Tosio Quasilinear equations of evolution in nonreflexive Banach spaces. **86c:34102**
 Krasnyuk, I. B. See Sharkovskii, A. N. et al., **86c:35021**
 Layton, William On the convergence of spectral methods for semilinear hyperbolic equations. **86i:65057**
 Li, Da Qian Global smooth solutions and development of singularities for nonlinear hyperbolic partial differential equations. (See **86m:35002**)
 Lions, Pierre-Louis See Crandall, Michael G. et al., **86a:35031**
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 Petrov, K. M. Boundedness of successive approximations in a case of a rarefaction wave. (Bulgarian. English and Russian summaries) **86a:35009**
 The method of successive approximations for a quasilinear hyperbolic system in one case of a line of strong discontinuity. (Bulgarian. English and Russian summaries) **86a:35010**
 Santi, Ettore Existence and uniqueness of solutions of a mixed problem for a symmetric hyperbolic system with discontinuous coefficients. (Italian. English summary) **86g:35117**
 Serdyukova, S. I. Asymptotic estimates of the Green function and the "difference step" in the case of Lipschitz-continuous coefficients. (Russian) **86c:05103**
 Sharkovskii, A. N. (with Krasnyuk, I. B.; Maistrenko, Yu. L.) Nonlinear boundary value problems for one-dimensional hyperbolic systems: asymptotically discontinuous solutions and their bifurcations. (Russian) **86c:35021**
 Shelukhin, V. V. Evolution of a contact discontinuity in the barotropic flow of a viscous gas. **86m:76064**
 Souganidis, Panagiotis E. Approximation schemes for viscosity solutions of Hamilton-Jacobi equations. **86k:35028**
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 Torelli, A. A nonlinear hyperbolic equation related to the dynamics of cardiac muscle. **86g:92020**
 Zhestkov, S. V. Construction of multiperiodic solutions of semilinear hyperbolic systems of partial differential equations by means of characteristics. (Russian) **86b:35007**

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 Measure-valued solutions to conservation laws. **86g:35121**
 Hoff, David Invariant regions for systems of conservation laws. **86f:35122**
 Kobayashi, Yoshiyasu A product formula approach to first order quasilinear equations. **86k:35085**
 Lax, Peter D. Shock waves, increase of entropy and loss of information. **86b:35130**
 LeVeque, Randall J. Convergence of a large time step generalization of Godunov's method for conservation laws. **86b:35131**
 Liu, Tai Ping Nonlinear stability of shock waves for viscous conservation laws. **86i:35088**
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- Tadmor, Eitan Skew-selfadjoint form for systems of conservation laws. **86c:35100**
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 Chang, Peter H. Certain recursion formulas of Euler-Poisson-Darboux equations. **86g:35158**
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 Loecherer, Bradley J. A stable adaptive numerical scheme for hyperbolic conservation laws. **86d:65123**
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 Nutku, Y. On a new class of completely integrable nonlinear wave equations. I. Infinitely many conservation laws. **86a:35137**
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- Anlie, A. M. Propagation of weak shock waves. **86a:35090**
 Bloom, Frederick Systems of nonlinear hyperbolic equations associated with problems of classical electromagnetic theory. **86i:35089**
 Majda, Andrew (with Rosales, Rodolfo) A theory for spontaneous Mach-stem formation in reacting shock fronts. II. Steady-wave bifurcations and the evidence for breakdown. **86b:35133**
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 Wick, Joachim Two classes of explicit solutions of the Carleman model. **86g:35122**
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- Anlie, A. M. (with Russo, G.) A geometric theory for the propagation of weak shock waves. **86g:70012**
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 Golubitsky, M. (with Schaeffer, David G.) ★ Singularities and groups in bifurcation theory. Vol. I. **86e:58014**
 Howes, F. A. An analytical treatment of the formation of one-dimensional steady shock waves in uniform and diverging ducts. **86a:70030**
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 Citrini, Claudio A hyperbolic problem with unilateral constraint: a string vibrating against an obstacle. (Italian. English summary) **86m:35106**
 Dafermos, C. M. (with Hrusa, William J.) Energy methods for quasilinear hyperbolic initial-boundary value problems. Applications to elastodynamics. **86k:35086**

- Dzhokhadze, O. M. Global solvability of an analogue of the Goursat problem for a class of quasilinear hyperbolic equations. (Russian) **86e:35092**
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 Gastaldi, L. (with Tomarelli, Franco) A uniqueness result for a nonlinear hyperbolic equation. **86e:35093**
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- Maksudov, F. G. (with Leonov, K. Ya.) On the smoothness of solutions to the initial-boundary value problems for a class of semilinear hyperbolic equations. (Russian) **86j:35109**
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 Mawhin, J. (with Ward, James R., Jr.) Asymptotic nonuniform nonresonance conditions in the periodic-Dirichlet problem for semilinear wave equations. **86f:35123**
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 Mensala, Gustavo Perla On the uniqueness of weak solutions for the Klein-Gordon equation with a nonlocal nonlinearity. **86d:35089**
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 Nakao, Mitsuhiro Energy decay of the wave equation with a nonlinear dissipative term. **86a:35095**
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- Amerio, Luigi Study of the motion of a string vibrating against a wall of any shape, under the action of arbitrary external force; support domains: a unilateral free boundary problem. (Italian. English summary) **86e:35098**

- Aron, M. A priori estimates for the displacement and velocity vectors in the dynamical theory of linear viscoelasticity. (German summary) **86i:73022**
- Basile, Nicola (with Mininni, Michele) Multiple periodic solutions for a semilinear wave equation with nonmonotone nonlinearity. (See **86m:35003**)
- Beals, Michael (with Reed, Michael) Microlocal regularity theorems for nonsmooth pseudodifferential operators and applications to nonlinear problems. **86a:35156**
- Bobrik, R. V. Density of a measure corresponding to the solution of the characteristic problem for the telegraph equation with random perturbations. (Russian) **86c:35171**
- Brenner, Philip On scattering and everywhere defined scattering operators for nonlinear Klein-Gordon equations. **86f:35155**
- Cazenave, Thierry Uniform estimates for solutions of nonlinear Klein-Gordon equations. **86f:35157**
- Cesari, L. (with Pucci, Patrizia) Global periodic solutions of the nonlinear wave equation. **86g:35007**
- Choquet-Bruhat, Yvonne (with Christodoulou, Demetrios) Cauchy problem at past infinity for nonlinear equations in curved spacetime. **86e:58012**
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- Gao, Ru Xi Singular perturbations for quasilinear hyperbolic equations. **86b:35009**
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- Ghidaglia, Jean-Michel (with Temam, R.) Propriétés des attracteurs associés à des équations hyperboliques non linéaires amorties. (English summary) [Properties of the attractors associated to damped nonlinear hyperbolic equations] **86f:58098**
- Ginibre, J. (with Velo, G.) The global Cauchy problem for the nonlinear Klein-Gordon equation. **86f:35149**
- Hartman, Philip On the monotonicity of nonnegative solutions and the uniqueness of eigenvalues. **86a:34044**
- Hermann, Leopold Periodic solutions to a one-dimensional strongly nonlinear wave equation with strong dissipation. **86g:35009**
- Janno, J. An inverse problem for a hyperbolic equation. (Russian. English summary) **86g:35202**
- Krejčí, Pavel Periodic solutions of a class of abstract nonlinear equations of the second order. (Russian and Czech summaries) **86b:34077**
- Lakshmikantham, V. (with Pandit, S. G.) Periodic solutions of hyperbolic partial differential equations. **86b:35010**
- Marcati, Pierangelo Decay and stability for nonlinear hyperbolic equations. **86e:35019**
- McKenna, P. J. On solutions of a nonlinear wave question when the ratio of the period to the length of the interval is irrational. **86f:35017**
- Melrose, R. B. (with Ritter, Niles) Interaction of nonlinear progressing waves for semilinear wave equations. **86m:35005**
- Mininni, Michele See Basile, Nicola, **(86m:35003)**
- Morris, Hedley C. (with Sheil, Derek; Dodd, Roger) Invariant manifolds and alternative approaches to reductive perturbation theory: dissipative systems. **86m:35146**
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- Toshmrisaev, Yu. U. Uniqueness of the solution of a boundary value problem with discontinuous gluing conditions for equations of mixed type with nonsmooth line of degeneracy. (Russian) 86k:35110
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- Vanninathan, M. (with Veerappa Gowda, G. D.) On the regularity of the variational solution of the Tricomi problem in the elliptic region. (French summary) 86k:35111
- Veerappa Gowda, G. D. See Vanninathan, M., 86k:35111
- Yakubov, S. See Dahuraev, T. D. et al., 86k:35102
- Yu, Wen Qi See Li, Da Qian et al., 86g:35134
- Zaimulabidov, M. M. The two-dimensional Tricomi problem when the domain of parabolicity is two-dimensional. (Russian) 86e:35104
- Zarubin, A. N. A boundary value problem for a model equation of elliptic-parabolic type. (Russian) (See 86d:00006)
- Zhegalov, V. I. A boundary value problem for the Lavrent'ev-Bitsadze equation in polar coordinates. (Russian) 86a:35105
- A boundary value problem with displacements for a fourth-order equation of mixed type. (Russian) 86d:35099
- Zheng, Song Mu Global smooth solutions to the Cauchy problem for quasilinear hyperbolic-elliptic coupled systems in higher dimensions. (Chinese) 86h:35090
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- Chebanaova, N. A. Solution of the Tricomi problem for the Lavrent'ev-Bitsadze equation by means of power series. (Russian. English summary) 86j:35022
- Franciosi, Michelangelo An existence and uniqueness theorem for the solution of an elliptic-parabolic equation, with discontinuous coefficients, in nondivergence form. (Italian. English summary) 86f:35087
- Gajewski, H. (with Sparing, H.-D.) On the limit of some diffusion-reaction system with small parameter. (German and Russian summaries) 86c:35074
- Gramchev, T. V. An application of the analytic microlocal analysis to a class of differential operators of mixed type. 86k:35004
- Karatoprakliev, G. D. Approximate solution of boundary value problems for equations of mixed type by the least squares method. (Russian) 86e:65155
- Korshavina, M. V. A boundary value problem for the equation S in an unbounded domain containing a line of singularity of the coefficient of the equation. (Russian) 86k:35051
- Malovichko, V. A. On the theory of boundary value problems for third-order equations of mixed-composite type. (Russian) 86e:35031
- Meredova, M. M. Completeness of eigenfunctions in the eigenvalue problem for a sixth-order equation of mixed-composite type. (Russian) 86i:35109
- Mullov, S. (with Sanginov, A.) Investigation of some systems of equations of composite type in $[n]$ -dimensional space. (Russian. Tajiki summary) 86h:35020
- Salakhitdinov, M. S. (with Urinov, A. K.) A boundary value problem with shift for a hyperbolic equation degenerating on the boundary of the domain. (Russian) 86a:35099
- Sanginov, A. See Mullov, S., 86h:35020
- Shopolov, N. N. The second boundary value problem for a mixed parabolic equation with nonlocal initial conditions. I. (Bulgarian. French and Russian summaries) 86f:35106
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- Nonlocal boundary value problem for a mixed equation of heat conduction in an unbounded domain. I. (Bulgarian. French and Russian summaries) 86f:35108
- Sparing, H.-D. See Gajewski, H., 86c:35074
- Urinov, A. K. See Salakhitdinov, M. S., 86a:35099
- Vanninathan, M. (with Veerappa Gowda, G. D.) Approximation of Tricomi problem with Neumann boundary condition. 86c:65108
- Veerappa Gowda, G. D. See Vanninathan, M., 86c:65108

35Nxx Overdetermined systems [See also 58G05, 58G07, 58Hxx.]

35N05 Constant coefficients

- Brattl, G. (with Trevisan, N.) A reducibility theorem for the solution of certain overdetermined differential systems. (Italian) **86g:35138**
- Cattabriga, Lamberto A remark on certain overdetermined systems of partial differential equations. **86b:35151**
- Dersahavets, B. A. Systems of partial differential equations in a space of functions analytic in the ball and having a given growth near its boundary. (Russian) **86i:35105**
- Trevisan, N. See Brattl, G., **86g:35138**

secondary classifications (35N05)

- Arushanyan, Z. A. (with Grigoryan, B. V.) A generalization of the Rudin-Carleson theorem. (Russian. Armenian summary) **86i:35037**
- Grigoryan, B. V. See Arushanyan, Z. A., **86i:35037**

35N10 Variable coefficients, general

- Plov, R. Investigation of certain nonlinear overdetermined systems of first-order partial differential equations with two unknown functions on the plane. (Russian. Tajiki summary) **86e:35105**

secondary classifications (35N10)

- Baouendi, M. S. (with Goulaouic, C.; Trèves, F.) Uniqueness in certain first-order nonlinear complex Cauchy problems. **86g:35045**
- Dubois-Violette, M. The theory of overdetermined linear systems and its applications to nonlinear field equations. **86m:58155**
- Gaqui, Jacques Formal integrability of systems of partial differential equations. **86k:58140**
- Goulaouic, C. See Baouendi, M. S. et al., **86g:35045**
- Samborskii, S. N. Coercive boundary value problems for overdetermined systems (elliptic problems). (Russian) **86d:58109**
- Coercive boundary value problems for overdetermined systems (parabolic problems). (Russian) **86d:58110**
- Trèves, F. See Baouendi, M. S. et al., **86g:35045**

35N15 $\bar{\partial}$ -Neumann problem and generalizations; formal complexes
[See also 32Fxx and 58G05.]

- Akhmedov, Sh. A. The second theorem of Malgrange. (Russian. Tajiki summary) **86h:35091**
- Salto, Tatsuo Sharp estimates for the $\bar{\partial}$ -Neumann problem and the $\bar{\partial}$ -problem. **86h:35092**

secondary classifications (35N15)

- Aragona, Jorge Théorèmes d'existence pour l'opérateur $\bar{\partial}$ sur les formes différentielles généralisées. (English summary) [Existence theorems for the $\bar{\partial}$ operator on generalized differential forms] **86j:32045**
- Bogge, A. (with Shaw, M.-C.) A kernel approach to the local solvability of the tangential Cauchy Riemann equations. **86g:32028**
- Charpentier, Philippe Résolution de l'équation $\bar{\partial}u = f$ et application aux zéros des fonctions holomorphes dans le bidisque. [Solution of the equation $\bar{\partial}u = f$ and application to the zeros of holomorphic functions in the bidisk] **86k:32016**
- Derridj, M. Le problème de Cauchy pour $\bar{\partial}$ et application. [The Cauchy problem for $\bar{\partial}$, with an application] **86m:32028**
- Frumin, I. D. Polynomial Weil polyhedra in general position. (Russian) **86f:32024**
- Ho, Lop-Hing Subellipticity of the $\bar{\partial}$ -Neumann problem on nonpseudoconvex domains. **86m:32029**
- Métivier, Guy Spectral asymptotics for the $\bar{\partial}$ -Neumann problem. **86g:35154**
- Polyakov, P. L. Solution of the $\bar{\partial}$ -equation with bound in tube domains. (Russian) **86h:32005**
- Primicerio, Angela Selvaggi The $\bar{\partial}$ -problem in domains biholomorphic to polydisks. (Italian summary) **86g:32029**
- Shaw, M.-C. Global solvability and regularity for $\bar{\partial}$ on an annulus between two weakly pseudoconvex domains. **86m:32030**
- See also Bogge, A., **86g:32028**
- Takegoshi, Kenshō A remark to: "Global regularity and spectra of Laplace-Beltrami operators on pseudoconvex domains" [Publ. Res. Inst. Math. Sci. 19 (1983), no. 1, 275-304; MR 85d:32037]. **86f:32023**
- Talhouli, A. Le problème $\bar{\partial}$ de Neumann et ses estimations sous-elliptiques. [The $\bar{\partial}$ -Neumann problem and subelliptic estimates for it] **86i:32035**

35N99 None of the above, but in this section

- Pucci, Patricia An overdetermined system. **86e:35106**

secondary classifications (35N99)

- Laurent, Yves ★Théorie de la deuxième microlocalisation dans le domaine complexe. (French) [Theory of second microlocalization in the complex domain] **86k:58113**
- Nacimovich, Mauro On global solvability for some systems of partial differential equations. **86a:58096**
- Stanton, Nancy K. The heat equation in several complex variables. **86a:58101**
- Trenea, T. V. Multidimensional analogues of the A. V. Bitsadze system. (Russian) **86e:35053**

35Pxx Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05.]

secondary classifications (35Pxx)

- Carroll, Robert Wayne Some topics in transmutation. **86m:47073**
- (Graff, S.) See Session: CIME, Schrödinger operators, **86m:81003**
- Como ★Schrödinger operators. **86m:81003**
- Schrödinger operators ★Schrödinger operators. **86m:81003**
- Session:
CIME, Schrödinger operators ★Schrödinger operators. **86m:81003**

35P05 General spectral theory

- Ashurov, R. R. (with Bastis, A. I.) Spectral function of an elliptic differential operator with constant principal part. (Russian) **86m:35119**
- Baleev, Erik Local spectral deformation techniques for Schrödinger operators. **86m:35120**
- Bastis, A. I. See Ashurov, R. R., **86m:35119**
- Conlon, Joseph G. A new proof of the Cwikel-Lieb-Rosenbljum bound. **86j:35118**
- Davies, E. B. Some norm bounds and quadratic form inequalities for Schrödinger operators. II. **86a:35106**
- Dergusov, V. I. Eigenfunctions of the continuous spectrum of a two-dimensional periodic light guide. (Russian) **86h:35093**
- Dermenjian, Yves (with Guillot, Jean-Claude) Décroissance des fonctions propres de l'opérateur autoadjoint décrivant la propagation des ondes acoustiques dans un milieu stratifié perturbé. (English summary) [Decreasing properties of the eigenfunctions of the selfadjoint operator describing acoustical wave propagation in a perturbed stratified medium] **86e:35107**
- (with Guillot, Jean-Claude) Les ondes élastiques dans un demi-espace isotrope. Développement en fonctions propres généralisées. Principe d'absorption limite. (English summary) [Elastic waves in an isotropic half-space. A generalized eigenfunction expansion and a limiting absorption principle] **86e:35108**
- Dil'basov, K. A. See Maksudov, F. G., **86m:35123**
- Dubrovskii, V. V. Formulas for regularized traces of second-order selfadjoint elliptic differential operators. (Russian) **86h:35094**
- Eskin, Gregory (with Ralston, James; Trubowitz, Eugene) On isospectral periodic potentials in \mathbb{R}^n . **86e:35109a**
- (with Ralston, James; Trubowitz, Eugene) On isospectral periodic potentials in \mathbb{R}^n . II. **86e:35109b**
- Fernandes, Claudio A. Resolvent estimates in some exterior regions. **86i:35106**
- Spectral concentration for the Laplace operator in the exterior of a resonator. **86h:35095**
- Gastony, F. (with Simon, Barry; Thaller, B.) On the selfadjointness of Dirac operators with anomalous magnetic moment. **86k:35112**
- Guillot, Jean-Claude See Dermenjian, Yves, **86e:35107** and **86e:35108**
- Gurarie, David On L^p -spectrum of elliptic operators. **86g:35139**
- Hess, Peter (with Senn, S.) Another approach to elliptic eigenvalue problems with respect to indefinite weight functions. **86g:35140**
- Jensen, Arne (with Perry, Peter) Commutator methods and Besov space estimates for Schrödinger operators. **86h:35096**
- Kappeler, Thomas Positive perturbations of selfadjoint Schrödinger operators. **86h:35097**
- Kato, Taro Nonselfadjoint Schrödinger operators with singular first-order coefficients. **86j:35119**
- Korotyaev, E. L. Eigenfunctions of the monodromy operator of the Schrödinger operator with a potential that is periodic with respect to time. (Russian) **86a:35107**
- Lawruk, Bohdan (with Wloka, Joseph) Wesentlich selbstadjungierte semidefinite Differentialoperatoren. (English summary) [Essentially selfadjoint semidefinite differential operators] **86m:35122**
- Lifshits, A. E. The continuous spectrum in some problems of mathematical physics. (Russian) **86h:35098**
- Makin, A. S. Sharp estimates for eigen- and associated functions of a second-order elliptic operator. (Russian) **86h:35099**
- Maksudov, F. G. (with Dil'basov, K. A.) A condition for the absence of the discrete spectrum of the radial Schrödinger operator. (Russian) **86m:35123**
- Matin, Mokhammed Abdul Spectral properties of the general elliptic boundary value problem with discontinuous coefficients. (Russian. English and Azerbaijani summaries) **86g:35141**
- Max'ya, V. G. (with Nazarov, S. A.; Plamenevskii, B. A.) Asymptotic expansions of eigenvalues of boundary value problems for the Laplace operator in domains with small openings. (Russian) **86b:35152**
- Murtasim, Kh. Kh. Point spectrum of Schrödinger operators. (Russian) **86m:35124**
- Nardin, Franco Dilation analyticity in nonhomogeneous electric field: existence of resonances. (Italian summary) **86b:35153**
- Nazarov, S. A. See Max'ya, V. G. et al., **86b:35152**
- Okazawa, Noboru An L^p theory for Schrödinger operators with nonnegative potentials. **86k:35113**
- Perry, Peter See Jensen, Arne, **86h:35096**
- Plamenevskii, B. A. See Max'ya, V. G. et al., **86b:35152**
- Ralston, James See Eskin, Gregory et al., **86e:35109a** and **86e:35109b**
- Ramm, A. G. Limit of the spectra of the interior Neumann problems when a solid domain shrinks to a plane one. **86f:35132**
- Read, Thomas T. On the essential selfadjointness of powers of Schrödinger operators. **86d:35100**
- Rybalov, Yu. V. The discreteness of the spectrum of the first boundary value problem for a nonregular elliptic equation. (Russian) **86h:35100**
- Senn, S. See Hess, Peter, **86g:35140**

Shon'ya, Z. V. Evaluation of integrals of squares of fundamental functions of nonseparable selfadjoint extensions of the Schrödinger operator in an arbitrary three-dimensional domain. (Russian) **86c:35108**

Sigal, I. M. Complex transformation method and resonances in one-body quantum systems. (French summary) **86m:35121a**
Addendum: "Complex transformation method and resonances in one-body quantum systems". **86m:35121b**

Simon, Barry m -functions and the absolutely continuous spectrum of one-dimensional almost periodic Schrödinger operators. (See **86f:00016**)

See also Gesztesy, F. et al., **86k:35112**

Skřivanov, M. M. The spectrum band structure of the three-dimensional Schrödinger operator with periodic potential. **86i:35107**

Sokolov, D. D. See Zel'dovich, Ya. B., **86d:35101**

Stukaitė, Vida Investigation of the spectrum of a degenerate elliptic operator in a tube domain. (Russian. English and Lithuanian summaries) **86h:35101**

Thaller, B. See Gesztesy, F. et al., **86k:35112**

Trubowitz, Eugene See Eakin, Gregory et al., **86c:35109a** and **86c:35109b**

Walter, G. G. See Zayed, Ahmed I., **86g:35142**

Weidmann, Joachim Stetige Abhängigkeit der Eigenwerte und Eigenfunktionen elliptischer Differentialoperatoren vom Gebiet. [Continuous dependence of eigenvalues and eigenfunctions of elliptic differential operators on the domain] **86f:35133**

Wielen, Norbert The essential selfadjointness of generalized Schrödinger operators. **86i:35108**

Wloka, Joseph See Lawruk, Bohdan, **86m:35122**

Zamonov, M. Z. The spectrum of a two-dimensional Schrödinger operator with a limit-periodic potential. (Russian. Tajiki summary) **86m:35125**

Zayed, Ahmed I. (with Walter, G. G.) On the singularities of singular Sturm-Liouville expansions and an associated class of elliptic PDEs. **86g:35142**

Zel'dovich, Ya. B. (with Sokolov, D. D.) Eigenoscillations of a domain with a random boundary. (Russian) **86d:35101**

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Amrein, W. O. (with Berthier, Anne-M.; Georgescu, Vladimir) Lower bounds for zero energy eigenfunctions of Schrödinger operators. **86f:81031**

Basiletti Rissa, L. Computing the eigenvalues of some boundary value problems involving linear differential operators. (Italian) (See **86i:00019**)

Berthier, Anne-M. See Amrein, W. O. et al., **86f:81031**

Brüning, E. (with Gesztesy, F.) On essential spectra of hard-core type Schrödinger operators. **86f:81025**

Caliceti, E. Perturbation theory for Schrödinger operators with complex potentials. (French summary) **86i:81033**

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Donig, J. A localization of Fredholm eigenvalues for the Helmholtz operator in bounded domains. **86j:35041**

Donnelly, Harold Eigenforms of the Laplacian on complete Riemannian manifolds. **86c:58145**

Engleisch, H. (with Kürsten, K.-D.) Infinite representability of Schrödinger operators with ergodic potential. (German and Russian summaries) **86h:47079**

Epstein, Charles L. Spectral decomposition of the Laplacian acting on a fundamental domain of H^3 . (French summary) **86m:58148**

Exner, P. ★ Some simple conditions on bound states of Schrödinger operators in dimension $d \geq 3$. **86d:81015**

★ Improved Rosen's conditions on bound states of Schrödinger operators. **86d:81016**

Fleckinger, Jacqueline Pellé Valeurs propres de problèmes elliptiques "indéfinis". (English summary) [Eigenvalues of "indefinite" elliptic problems] **86m:35047**

Frank, Léonid S. Perturbations singulières coercives. IV. Problème des valeurs propres. (English summary) [Coercive singular perturbations. IV. The eigenvalue problem] **86g:35013**

Gabov, S. A. (with Mamedov, K. S.) An operator pencil arising in the dynamics of a compressible stratified fluid. (Russian) **86i:35119**

Garadshayev, A. On the problem of normal oscillations of a heavy viscous fluid in a vessel. (Russian) **86c:76025**

Georgescu, Vladimir See Amrein, W. O. et al., **86f:81031**

Gesztesy, F. (with Grosse, H.; Thaller, B.) First-order relativistic corrections and spectral concentration. **86j:81026**

See also Brüning, E., **86f:81025**

Gorbachuk, M. L. See Gorbachuk, V. I., **86g:34081**

Gorbachuk, V. I. (with Gorbachuk, M. L.) ★ Граничные задачи для дифференциально-операторных уравнений. (Russian) [Boundary value problems for operator-differential equations] **86g:34081**

Grosse, H. See Gesztesy, F. et al., **86j:81026**

Hameiri, Elieser On the essential spectrum of ideal magnetohydrodynamics. **86a:76046**

Kotani, Shinichi Ljapunov indices determine absolutely continuous spectra of stationary random one-dimensional Schrödinger operators. **86h:80117**

Kürsten, K.-D. See Engleisch, H., **86h:47079**

Kuttler, J. R. A nodal line theorem for the sloshing problem. **86h:76007**

Mamedov, K. S. See Gabov, S. A., **86i:35119**

Micheletti, Anna Maria Genericity properties for some eigenvalue problems. (Italian. English summary) (See **86m:35003**)

Ohwaki, Shin-ichi Eigenfunctions of the 2-dimensional Laplacian displayed by computer graphics. **86c:58149**

Orasov, M. B. Localization of the spectrum in a problem on normal oscillations of an elastic shell filled with a viscous incompressible fluid. (Russian) **86c:73033**

Perel'muter, M. A. (with Semenov, Yu. A.) Essential selfadjointness of second-order elliptic operators with measurable coefficients. (Russian) **86m:47075**

Sadallah, Boubaker-Khaled On the characterization of the domains of fractional powers of $-A$ in a polygonal domain. (Arabic summary) **86g:47064**

Semenov, Yu. A. See Perel'muter, M. A., **86m:47075**

Simon, Barry Schrödinger semigroups. **86b:81001a**

Erratum: "Schrödinger semigroups". **86b:81001b**

Tervo, Jouko ★ On coercivity and spectrum of linear pseudodifferential operators. **86f:35186**

Thaller, B. See Gesztesy, F. et al., **86j:81026**

Torrea, A. Oscillation of elliptic operators and the structure of their spectrum. (Russian) **86f:35018**

Urakawa, Hajime Reflection groups and the eigenvalue problems of vibrating membranes with mixed boundary conditions. **86a:58115**

Yafaev, D. R. Remarks on the spectral theory for the Schrödinger operator of multiparticle type. (Russian. English summary) **86a:81086**

35P10 Completeness of eigenfunctions, eigenfunction expansions

Ashurov, R. R. Summability almost everywhere of Fourier series from L_p in eigenfunctions. (Russian) **86g:35148**

Localization of spectral expansions corresponding to elliptic operators with constant coefficients. (Russian) **86h:35102**

Barnovská, M. (with Il'in, V. A.) The Riesz basis of a spectral problem with eigenvalues of infinite multiplicity. (Russian. English summary) **86h:35103**

Basyk, K. I. Eigenfunctions of a problem with oblique derivative. (Russian) **86h:35104**

Dolgoplatev, V. G. Absolute summability by Riesz means, formed with respect to a fundamental function system of the Laplace operator, of functions from a Nikol'skii class. (Russian) **86d:35102**

Absence of absolute summability by Riesz means of spectral expansions of functions from a Nikol'skii class. (Russian) **86b:35154**

Gurarie, David Kernels of elliptic operators: bounds and summability. **86c:35109**

Hess, Peter On the relative completeness of the generalized eigenvectors of elliptic eigenvalue problems with indefinite weight functions. **86g:35143**

Il'in, V. A. On the absolute and uniform convergence of the expansions in eigen- and associated functions of a nonselfadjoint elliptic operator. (Russian) **86a:35108**

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Ivanov, S. A. The Regge problem for vector-functions. (Russian) **86b:35155**

Joč, I. On the summability of eigenfunction expansions. I. **86d:35103**

Karpeshina, Yu. E. A theorem for eigenfunction expansion of the Schrödinger operator with an exact potential of lattice type. (Russian) **86a:35109**

Kashan, V. A. Completeness in L_p of a system of eigen- and associated functions of elliptic operators in unbounded domains. (Russian) **86h:35105**

Khalmukhamedov, A. R. Expansions in eigenfunctions of the Schrödinger operator with singular potential. (Russian) **86d:35104**

Kozlova, N. N. Riesz summability of expansions in eigenfunctions of the Schrödinger operator with a critical exponent. (Russian) **86k:35114**

Meredova, M. M. Completeness of eigenfunctions in the eigenvalue problem for a sixth-order equation of mixed-composite type. (Russian) **86i:35109**

Pinsky, Mark A. Completeness of the eigenfunctions of the equilateral triangle. **86c:35115**

Rodríguez Ricard, Mariano Completeness of the system of eigenvectors for an elliptic boundary value problem. (Spanish. English summary) **86g:35144**

Salmov, Ya. Sh. Uniform equiconvergence of the Riesz means of spectral expansions with respect to an N -multiple system of exponentials in an N -multiple Fourier integral. (Russian) **86i:35110**

Suchkov, M. V. Some properties of spectral expansions corresponding to an elliptic selfadjoint operator with discontinuous coefficients. (Russian) **86f:35134**

secondary classifications (35P10)

Avdonin, S. A. (with Ivanov, S. A.) Serial bases of exponentials and the problem of damping of a system of strings. (Russian) **86d:35078**

Garadshayev, A. On the problem of the motion of waves in a channel with an elastic bottom, filled by an ideal compressible liquid. (Russian) **86c:35129**

Ismatov, M. A mixed problem for an equation that is not solved with respect to the highest time derivative. (Russian. Tajiki summary) **86f:35052**

Ivanov, S. A. See Avdonin, S. A., **86d:35078**

Kornienko, V. V. The spectrum of irregular operators. (Russian) **86c:47055**

Makarov, K. A. Eigenfunctions of an operator of "small diffusion" in a boundary layer approximation. (Russian) **86f:35142**

35P15 Estimation of eigenvalues, upper and lower bounds

Del Grosso, Gabriella (with Gerardi, Anna; Marchetti, Federico) Probabilistic methods for eigenvalue estimates. **86g:35145**

Egorov, Yu. V. (with Kondrat'ev, V. A.) Estimation of the smallest eigenvalue for an elliptic operator. (Russian) **86b:35156**

Exner, P. Some simple conditions on bound states of Schrödinger operators in dimension $d \geq 3$. **86d:35105**

Proese, R. (with Herbst, I.) Exponential lower bounds to solutions of the Schrödinger equation: lower bounds for the spherical average. **86a:35110**

Gerardi, Anna See Del Grosso, Gabriella et al., **86g:35145**

Giarrusso, Ester (with Nunziante, Diana) An eigenvalue problem for a class of degenerate elliptic equations. (Italian) **86j:35120**

Herbst, I. See Proese, R., **86a:35110**

Il'in, V. A. (with Moiseev, E. I.) Estimates that are sharp with respect to order of maximum moduli of eigen- and associated functions of an elliptic operator. (Russian) **86c:35110**

Imperator, Karl ★ Über das Fehlen von Eigenwerten singulärer elliptischer Differentialoperatoren mit variablem Hauptteil im Gebiet G . (German) [On the absence of eigenvalues of singular elliptic differential operators with variable principal part in the domain G] **86b:35157**

- Kapustin, N. Yu. Sharp anti-a priori estimates for eigen- and associated functions of an elliptic operator. (Russian) **86a:35111**
- Kerman, R. (with Sawyer, E.) Weighted norm inequalities for potentials with applications to Schrödinger operators, Fourier transforms, and Carleson measures. **86m:35126**
- Kondrat'ev, V. A. See Egorov, Yu. V., **86b:35156**
- Leung, Pui Fal (with Li, Luen Chau) On the spectrum of the biharmonic operator in a bounded domain. **86g:35146**
- Lewis, Roger T. A Friedrichs inequality and an application. **86i:35111**
- Li, Luen Chau See Leung, Pui Fal, **86g:35146**
- Marchetti, Federico See Del Grosso, Gabriella et al., **86g:35145**
- Masmoudi, M. Comportement des valeurs propres du problème de Neuman en fonction du domaine. [Behavior of the eigenvalues of the Neumann problem in terms of the domain] **86f:35135**
- Moiseev, E. I. See Il'in, V. A., **86c:35110**
- Nunziante, Diana See Glarussio, Ester, **86j:35120**
- Outassourt, Abderrahim Perturbation d'un potentiel périodique en limite semi-classique. (English summary) [On the spectrum of a perturbed periodic potential in the semiclassical limit] **86j:35121**
- Sawyer, E. See Kerman, R., **86m:35126**
- secondary classifications (35P15)
- Beattie, Christopher A. (with Greenlee, W. M.) Convergence theorems for intermediate problems. **86i:49045**
- Goerlich, Friedrich (with Haunhorst, H.) Eigenwertschränken für Eigenwertaufgaben mit partiellen Differentialgleichungen. (English and Russian summaries) [Eigenvalue bounds for eigenvalue problems with partial differential equations] **86h:35170**
- Gosses, J.-P. (with Lami Doso, E.) On the principal eigenvalue of a second order linear elliptic problem. **86m:35043**
- Greenlee, W. M. See Beattie, Christopher A., **86i:49045**
- Gurarie, David Finite propagation speed and kernels of strictly elliptic operators. **86m:35041**
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- Sawyer, E. Unique continuation for Schrödinger operators in dimension three or less. (French summary) **86i:35034**
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- Signal, I. M. A generalized Weyl theorem and L^p -spectra of Schrödinger operators. **86g:47004**
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35Qxx Special equations and problems [See also 35J05, 35K05, 35L05.]

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- Loria, Dietrich (with Meyer-Spasche, Rita; Stredulinsky, E. W.) Asymptotic behavior of the solutions of certain parabolic equations. **86a:35020**
- Meyer-Spasche, Rita See Loria, Dietrich et al., **86a:35020**
- Stredulinsky, E. W. See Loria, Dietrich et al., **86a:35020**
- 35Q05 Euler-Poisson-Darboux equation and generalizations
- Aldashev, S. A. Properties of solutions of partial differential equations that decompose into factors with singularities. (Russian) **86c:35121**
- Chang, Peter H. Certain recursion formulas of Euler-Poisson-Darboux equations. **86g:35158**
- Ebin, David G. A concise presentation of the Euler equations of hydrodynamics. **86i:35118**
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- Alekseenko, S. N. A boundary value problem for a degenerate linearized Navier-Stokes system with convective terms that are nonzero on the boundary. (Russian) **86m:35136**
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- Amick, Charles J. Existence of solutions to the nonhomogeneous steady Navier-Stokes equations. **86d:35116**
- Bardos, C. (with Golse, François) Différents aspects de la notion d'entropie au niveau de l'équation de Boltzmann et de Navier-Stokes. (English summary) [On some features of the notion of entropy at the level of the Boltzmann and Navier-Stokes equations] **86g:35159**
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- (with Friedman, Avner) Analyticity for the Navier-Stokes equations governed by surface tension on the free boundary. **86b:35167**

- Bendali, A. (with Domínguez, J. M.; Gallic, S.) A variational approach for the vector potential formulation of the Stokes and Navier-Stokes problems in three-dimensional domains. **86b:35121**
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- Borchers, W. Über das Anfangs-Randwertproblem der instationären Stokes-Gleichung. [On the initial-boundary value problem of the nonstationary Stokes equation] (Not in MR)
- Caprino, S. (with De Gregorio, S.) On the statistical solutions of the two-dimensional, periodic Euler equation. **86b:35111**
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- Rautmann, R. On optimum regularity of Navier-Stokes solutions at time $t = 0$. **86a:35118**
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- Schonbek, Maria Elena L^2 decay for weak solutions of the Navier-Stokes equations. **86j:35129**
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- Temam, R. ★ Navier-Stokes equations and nonlinear functional analysis. **86f:35152**
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- Valli, Alberto Periodic and stationary solutions for compressible Navier-Stokes equations via a stability method. **86b:35172**
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Babenko, K. I. (with Afendikov, A. L.) Stability of Taylor vortices. (Russian) **86a:76041**

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Bernardi, Christine (with Raugel, Geneviève) A conforming finite element method for the time-dependent Navier-Stokes equations. **86j:65128**

Bernert, Klaus Ein Differenzverfahren zur Lösung der zweidimensionalen instationären Navier-Stokes-Gleichungen. [A difference method for the solution of two-dimensional nonstationary Navier-Stokes equations] **86g:65155**

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 Fiascon, W. (with Zajackowski, Wojciech) Existence and uniqueness of solutions of the initial-boundary value problem for the flow of a barotropic viscous fluid, local in time. (Russian and Polish summaries) **86g:76014a**
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35Rxx Miscellaneous topics {For equations on manifolds, see 58Gxx; for manifolds of solutions, see 58Bxx; for stochastic PDEs, see also 60H15.}

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35R05 Equations with discontinuous coefficients or data

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Cibulka, A. Solvability of elliptic equations with discontinuous nonlinearities. (Russian) **86d:35046**

Frank, Léonid S. (with Wendt, W. D.) On an elliptic operator with discontinuous nonlinearity. **86b:35061**

Gaskevich, I. V. Estimates and methods of solution for an initial-boundary value problem with continuous-discrete parameters. (Russian) **86i:35083**

Goldstein, J. A. (with Mazumdar, Tapas) A heat equation in which the diffusion coefficient changes sign. **86g:35091**

Hierbet, Ehrhard Hebbbarkeit von Singularitäten für lineare Differentialoperatoren mit gestörter Elliptizität. [Removability of singularities for linear differential operators with disturbed ellipticity] **86m:35070**

Mazumdar, Tapas See Goldstein, J. A., **86g:35091**

Nicolosi, Francesco The third boundary value problem for linear elliptic equations with discontinuous coefficients. (Italian. English summary) **86f:35067**

Solomyak, T. B. Solution of the generalized diffraction problem. (Russian) **86g:35061**

Trombetti, G. See Alvino, Angelo, **86c:35040**

Vásquez, Juan Luis Some semilinear partial differential problems with measures. (Spanish) **86a:35052**

Wendt, W. D. See Frank, Léonid S., **86b:35061**

Zecca, Pasquale See Canfora, A., **(86j:35002)**

35R10 Difference-partial differential equations, equations with time lag

Anisui, Mira-Cristiana Existence and uniqueness of solutions of the Darboux problem for partial differential-functional equations. **86k:35149**

Borok, V. M. Uniqueness of the solution of the Cauchy problem for systems of linear loaded equations. (Russian) **86c:35155**

Brychczy, Stanisław Approximate iterative method and the existence of solutions of nonlinear parabolic differential-functional equations. **86b:35190**

Di Blasio, Gabriella (with Kunisch, K.; Sinestrari, E.) The solution operator for a partial differential equation with delay. (Italian summary) **86j:35153**

(with Kunisch, K.; Sinestrari, E.) L^2 -regularity for parabolic partial integro-differential equations with delay in the highest-order derivatives. **86a:35136**

(with Kunisch, K.; Sinestrari, E.) Stability for abstract linear functional differential equations. **86j:35152**

Dyushenkova, L. I. Triviality of solution in a half space of certain functional-differential equations. (Russian) **86a:35137**

Eichhorn, Wolfgang (with Gleissner, Winfried) On a functional-differential equation arising in the theory of the distribution of wealth. **86g:35196**

Georgiou, D. (with Kreith, K.) Functional characteristic initial value problems. **86g:35197**

Gleissner, Winfried See Eichhorn, Wolfgang, **86g:35196**

Kamont, Zdzisław On the stability of solutions of first order partial differential-functional equations. **86c:35156**

(with Zacharek, S.) On partial differential inequalities of the first order with a retarded argument. (German and Russian summaries) **86i:35134**

Kreith, K. See Georgiou, D., **86g:35197**

Kukhta, G. P. Construction of the solution of the first boundary value problem for an equation of parabolic type with delay in the highest term. (Russian) **86k:35150**

Kunisch, K. See Di Blasio, Gabriella et al., **86a:35136**; **86j:35152** and **86j:35153**

Lé Xuán Cún Quasiperiodic solutions of a nonlinear system of partial differential equations with delay. (Russian) **86e:35141**

Quasiperiodic solutions of a nonlinear system of partial differential equations with lag. (Russian) **86a:35138**

- Mokshchev, V. S. Eigenvalues of a periodic problem for partial differential equations with deviating arguments. (Russian) **86g:35198**
- Redheffer, Ray (with Redlinger, Reinhard) Quenching in time-delay systems: a summary and a counterexample. **86a:35139**
- Redlinger, Reinhard. See Redheffer, Ray, **86a:35139**
- Sinestrari, E. See Di Blasio, Gabriella et al., **86a:35136**; **86j:35152** and **86j:35153**
- Soulik, Wladyslaw Existence theorem for generalized functional-differential equations of hyperbolic type. **86i:35135**
- Voigt, Wolfgang Abschätzungssätze für parabolische Funktional-Differential-Operatoren mit Funktional-Randbedingungen. (English summary) [Estimation theorems for parabolic functional-differential operators with functional boundary conditions] **86a:35140**
- Walter, Wolfgang Functional differential equations of the Cauchy-Kowalevsky type. **86e:35143**
- Zacharek, S. See Kamont, Zdzislaw, **86i:35134**

secondary classifications (35R10)

- Ansemil, J. M. (with Perrot, B.) C^∞ functions in infinite dimension and linear partial differential-difference equations with constant coefficients. **86a:40044**
- Avantaggiati, A. (with Malec, Marian) Stabilité des solutions d'un système d'équations différentielles fonctionnelles du type elliptique. (Italian summary) [Stability of the solutions of a system of elliptic functional-differential equations] **86h:35043**
- Chabrowski, J. On the nonlocal problem with a functional for parabolic equation. **86f:35102**
- Egorov, A. I. (with Kapustyan, V. E.) Synthesis of optimal control of distributed systems with delay in interrelated boundary conditions. (Russian) (See **86f:93006**)
- Engler, Hans Stabilization of solutions for a class of parabolic integro-differential equations. **86h:45025**
- Kapustyan, V. E. See Egorov, A. I., **(86f:93006)**
- Klamka, J. Controllability of systems with delays. **86a:93012**
- Kolomiets, V. G. (with Pritula, N. N.) Single-frequency oscillations in nonlinear systems with distributed parameters under random actions. (Russian) **86e:35150**
- Malec, Marian Maximum principle for elliptic nonlinear functional-differential operators. (Italian. English summary) **86h:35044**
- See also Avantaggiati, A., **86h:35043**
- Nijhoff, F. W. Theory of integrable three-dimensional nonlinear lattice equations. **86k:35141**
- Perrot, B. See Ansemil, J. M., **86a:40044**
- Pritula, N. N. See Kolomiets, V. G., **86e:35150**
- Rybakovskii, Krystof P. Irreducible invariant sets and asymptotically linear functional-differential equations. (Italian summary) **86a:58089**
- Sinestrari, E. On a class of retarded partial differential equations. **86b:34150**
- Tkach, B. P. Quasiperiodic solutions of certain systems of mixed partial differential equations of retarded type. (Russian) **86g:35011**

35R15 Equations on function spaces [See also 58D25.]

- Crandall, Michael G. (with Lions, Pierre-Louis) Hamilton-Jacobi equations in infinite dimensions. I. Uniqueness of viscosity solutions. **86j:35154**
- Kondrat'ev, Yu. G. Dirichlet operators and the smoothness of solutions of infinite-dimensional elliptic equations. (Russian) **86j:35155**
- Kurbyko, I. F. Some equations with pseudodifferential operators in an infinite-dimensional space. (Russian) **86c:35157**
- Lions, Pierre-Louis See Crandall, Michael G., **86j:35154**
- Onculescu, Ion Systèmes d'équations aux dérivées partielles analytiques dans des espaces de Banach. [Systems of analytic partial differential equations in Banach spaces] **86i:35136**
- Skakhbayyan, R. L. A general boundary value problem for second-order elliptic operators on infinite-dimensional manifolds with boundary. (Russian. English and Armenian summaries) **86b:35191**
- Sokolovskii, V. B. The second boundary value problem without initial conditions for the wave equation with the Lévy-Laplace operator in a Hilbert ball. (Russian) **86m:35152**
- Asymptotic behavior of the solution of the Neumann problem in a ball of the space R^n as $n \rightarrow \infty$. (Russian) **86f:35170**

secondary classifications (35R15)

- Ansemil, J. M. (with Perrot, B.) C^∞ functions in infinite dimension and linear partial differential-difference equations with constant coefficients. **86a:40044**
- Barbu, Viorel Global existence for Hamilton-Jacobi equation in Hilbert space. **86e:35145**
- Chabanyuk, Ya. M. A formula for integration by parts and relations between infinitely multiple Wiener integrals and differential equations. (Russian. English summary) **86k:28013**
- Daletskii, Yu. L. (with Fomin, S. V.) ★ Меры и дифференциальные уравнения в бесконечномерных пространствах. (Russian) [Measures and differential equations in infinite-dimensional spaces] **86g:46059**
- Fomin, S. V. See Daletskii, Yu. L., **86g:46059**
- Förste, Joachim Über die Hopfsche Gleichung für eine mikropolare Flüssigkeit. [On the Hopf equation for a micropolar fluid] **86b:35169**
- Fursikov, A. V. Solvability of a chain of equations for space-time moments. (Russian) **86i:35137**
- Gonçalves, J. V. A. Existence of saddle points for functionals on Hilbert spaces: applications to Hammerstein equations. **86g:58030**
- Havárneanu, T. Existence for the dynamic programming equation of control diffusion processes in Hilbert space. **86j:49063**
- Kallianpur, G. (with Wolpert, R.) Infinite-dimensional stochastic differential equation models for spatially distributed neurons. **86f:60074**
- Khrennikov, A. Yu. A theory of generalized measures on a Hilbert space. (Russian) **86k:46069**

- Mogilevskaya, L. B. The Cauchy-Kovalevskaya theorem for a Banach space. (Russian) **86e:35002**
- Onculescu, Ion Analytical systems of partial Fréchet derivatives on fixed directions, in Banach spaces. **86k:58012**
- Perrot, B. See Ansemil, J. M., **86a:40044**
- Roy, Swapna See Roy Chowdhury, A., **86i:58069**
- Roy Chowdhury, A. (with Roy, Swapna) Bi-Hamiltonian structure and Lie-Bäcklund symmetries for a modified Harry Dym system. **86i:58069**
- Wolpert, R. See Kallianpur, G., **86f:60074**

35R20 Operator equations, general [See also 34Gxx, 47A50, 47H15.]

- Barbu, Viorel Global existence for Hamilton-Jacobi equation in Hilbert space. **86e:35145**
- Fursikov, A. V. Solvability of a chain of equations for space-time moments. (Russian) **86i:35137**
- Hounie, Jorge Global Cauchy problems modulo flat functions. **86c:35158**
- Kuchminalskaya, L. I. Solvability of mixed problems for a class of infinite-order nonlinear differential equations. (Russian. English summary) **86b:35192**
- Nazarov, P. Construction of Green functions for multidimensional differential equations. (Russian. Tajiki summary) **86c:35144**
- Samedova, S. G. The difference method for solving an inverse problem on determining the right-hand sides of first-order operator-differential equations. (Russian. English and Azerbaijani summaries) **86h:35130**
- Shishat'skii, S. P. Uniqueness of the extension of solutions of degenerate differential equations with unbounded operators in the characteristic case. (Russian) **86k:35151**
- Sisgeti, Ferenc Linear differential equations on biscales of Banach spaces. (Russian) **86m:35153**
- Ugowski, Henryk Some approximation and estimate theorems and their application to the theory of parabolic equations in a Banach space. **86d:35141**

secondary classifications (35R20)

- Avdeev, A. V. Uniqueness and stability of the solution of an ill-posed Cauchy problem for a degenerate fourth-order differential inequality with unbounded operator. (Russian) **86c:35145**
- Cesari, L. Existence of solutions of nonlinear differential equations via fixed point theorems. **86b:47105**
- Dias Dias, J. Ildefonso Results and methods concerning the finite extinction property for evolution equations. (Spanish) **86d:35062**
- Dincă, G. A variational method for multivalued operator equations. **86i:47077**
- Heinrich, Jörg Zur Lösbarkeit der Anfangs-Randwertaufgabe $(\partial/\partial t)u - D(x, t, u)\Delta u = f$ im Sobolev-Raum. (English and Russian summaries) [On the solvability of the initial-boundary value problem $(\partial/\partial t)u - D(x, t, u)\Delta u = f$ in the Sobolev space] **86h:35069**
- Kopaneva, V. I. The Cauchy-Goursat problem for the telegraph equation with an abstract operator. (Russian. Armenian summary) **86k:35073**
- Kuchminalskaya, L. I. Nonlinear operator-differential equations and their applications. (Russian) **86b:34125**
- Levandoskii, S. Z. Spectral asymptotics of differential operators with operator coefficients and some applications. (Russian) **86m:35129**
- Levine, H. A. (with Vessella, S.) Estimates and regularization for solutions of some ill-posed problems of elliptic and parabolic type. **86f:34122**
- Shakhmurov, V. B. Coercive boundary value problems for degenerate abstract equations. (Russian) **86g:47010**
- Soltanov, K. N. On the theory of normal solvability of nonlinear equations. (Russian) **86b:47107**
- Straughan, Brian Conditional stability and symmetry in hydrodynamics and mathematical biology. **86f:35029**
- Vessella, S. See Levine, H. A., **86f:34122**

35R25 Improperly posed problems

- Avdeev, A. V. Uniqueness and stability of the solution of an ill-posed Cauchy problem for a degenerate fourth-order differential inequality with unbounded operator. (Russian) **86c:35145**
- Cosner, Chris (with Rundell, William) Extension of solutions to second-order partial differential equations by the method of quasireversibility. **86c:35159**
- Payne, L. E. Improved stability estimates for classes of ill posed Cauchy problems. **86k:35152**
- Petrov, A. N. Well-posedness of boundary value problems of a two-velocity boundary layer. (Russian) **86c:35160**
- Rundell, William See Cosner, Chris, **86c:35159**

secondary classifications (35R25)

- Alifanov, O. M. Methods of solving ill-posed inverse problems. **86c:80004**
- Atakhodjaev, M. A. Single-valued, dense solvability of a plane ill-posed problem for the biharmonic equation. (Russian) **86i:31003**
- Bao, David (with Choquet-Bruhat, Yvonne; Isenberg, James; Yasskin, Philip B.) The well-posedness of $(N=1)$ classical supergravity. **86d:83049**
- Bukhgeim, A. L. ★ Уравнения Вольтерра и обратные задачи. (Russian) [Volterra equations and inverse problems] **86b:35193**
- Choquet-Bruhat, Yvonne See Bao, David et al., **86d:83049**
- Ermatov, U. Solvability of the Cauchy problem for some ill-posed systems of differential equations. (Russian. Tajiki summary) **86g:35039**
- Glasko, V. B. ★ Обратные задачи математической физики. (Russian) [Inverse problems of mathematical physics] **86f:00029**
- Isenberg, James See Bao, David et al., **86d:83049**
- Levine, H. A. (with Vessella, S.) Estimates and regularization for solutions of some ill-posed problems of elliptic and parabolic type. **86f:34122**

- Liu, Jia Qi Classification of inverse problems of equations of mathematical physics and solutions of ill-posed problems. (Chinese) **86d:35143**
- Sabatier, Pierre C. Introduction to ill-posed aspects of nuclear scattering. (See **86j:81002**)
- Salyga, B. O. An analogue of a multipoint problem for equations that are well posed in the sense of I. G. Petrovskii. (Russian) **86d:35031**
- Strakhov, V. N. (with Valyashko, G. M.) Adaptive regularization of linear ill-posed problems and their use in the solution of problems of gravimetry and magnetometry. (Russian) **86f:86006**
- Vabishchevich, P. N. Difference methods for solution of certain ill-posed problems. (Russian) **86k:65086**
- Valyashko, G. M. See Strakhov, V. N., **86f:86006**
- Vessella, S. See Levine, H. A., **86f:34122**
- Yasskin, Philip B. See Bao, David et al., **86d:83049**
- 35R30** Inverse problems (undetermined coefficients, etc.)
- Anger, Gottfried ★ On the relationship between mathematics and its applications. **86c:35153**
- Anikonov, D. S. Multidimensional inverse problems for the transport equation. (Russian) **86f:35171**
- Besnochenko, N. Ya. Nonuniqueness of the solution of problems of determination of coefficients for higher terms of partial differential equations. (Russian) **86f:35172**
- Bidalbekov, E. Y. See Romanov, V. G., **86c:35146**
- Bondarenko, A. N. Inverse problems for the Vlasov equation. (Russian) **86f:35173**
- Bondakii, M. A. See Strakhov, V. N., **86i:35144**
- Bukhgeim, A. L. ★ Уравнения Вольтерра и обратные задачи. (Russian) [Volterra equations and inverse problems] **86b:35193**
- Multidimensional inverse problems. (Russian) **86h:35131**
- Cheney, Margaret Two-dimensional inverse scattering: compactness of the generalized Marchenko operator. **86g:35199**
- Chernyavskii, A. G. A linearized inverse problem for the Helmholtz equation. (Russian) **86b:35194**
- Chi-Dun-Chi, Yu. V. Solution of an inverse problem of heat conduction theory. (Russian. Kazakh summary) **86h:35132**
- Dümmel, Siegfried Inverse problems for the heat equation. (See **86b:00003**)
- Ein Eindeutigkeitsatz zur Bestimmung eines Koeffizienten in der Wärmeleitungsgleichung. [A uniqueness theorem for the determination of a coefficient in the heat equation] **86b:35195**
- Fawcett, John Some simple stability results for inverse scattering problems. (See **86c:00016**)
- Fujita, Hiroshi Direct and inverse problems for parabolic equations. **86a:35141**
- Go'dman, N. L. Determination of unknown coefficients in a multidimensional quasilinear parabolic equation. (Russian) **86g:35200**
- Guerri, L. (with Magenes, Enrico) An inverse problem of electrocardiology. (Russian) **86b:35196**
- Hoffmann, K. H. (with Sprekels, J.) On the identification of coefficients of elliptic problems by asymptotic regularization. **86c:35161**
- Iskenderov, A. D. Variational formulations of certain multidimensional inverse problems. (Russian) **86g:35201**
- Regularization of a multidimensional inverse problem and its optimization formulation. (Russian. English and Azerbaijani summaries) **86f:35174**
- Ivankov, A. L. See Prilepko, A. I., **86i:35140**
- Janno, J. An inverse problem for a hyperbolic equation. (Russian. English summary) **86g:35202**
- Kabanikhin, S. I. A projection method for solving multidimensional inverse problems for hyperbolic equations. (Russian) **86i:35138**
- Khaidarov, A. Existence of a solution of an inverse problem for an elliptic equation. (Russian) **86d:35142**
- A class of inverse problems for elliptic equations. (Russian) **86b:35197**
- Carleman estimates and inverse problems for hyperbolic equations. (Russian) **86f:35175**
- Kireltov, V. R. (with Sharafutdinov, V. A.) Inverse problems of photometry. (Russian) **86i:35139**
- Klibanov, M. V. Inverse problems in the "large" and Carleman estimates. (Russian) **86b:35198**
- Uniqueness in the large of inverse problems for a class of differential equations. (Russian) **86f:35176**
- A class of inverse problems for nonlinear parabolic equations. (Russian) **86h:35154**
- Kohn, Robert V. (with Vogelius, Michael) Identification of an unknown conductivity by means of measurements at the boundary. (See **86i:00035**)
- (with Vogelius, Michael) Determining conductivity by boundary measurements. II. Interior results. **86k:35155**
- Kremlev, A. N. An inverse problem of scattering theory. (Russian) **86h:35133**
- Liu, Jia Qi Classification of inverse problems of equations of mathematical physics and solutions of ill-posed problems. (Chinese) **86d:35143**
- Magenes, Enrico See Guerri, L., **86b:35196**
- Mamayusupov, M. Sh. Uniqueness of reconstruction of the right-hand side of a pseudoparabolic equation. (Russian) **86d:35144**
- A multidimensional inverse problem for a pseudoparabolic equation in a linearized formulation. (Russian) **86d:35145**
- The problem of determining coefficients of a pseudoparabolic equation. (Russian) **86d:35146**
- An inverse problem for a pseudoparabolic equation in a linearized formulation. (Russian) **86m:35154**
- Mamayusupov, O. Sh. An inverse problem for the system of Maxwell equations for a fixed frequency. (Russian) **86a:35142**
- Melin, Anders Operator methods for inverse scattering on the real line. **86f:35177**
- Meyer, Sybille Die Existenz einer Lösung für ein inverses Problem der Wärmeleitungsgleichung im quasilinearen Fall. [The existence of a solution for an inverse problem of the heat equation in the quasilinear case] **86b:35199**
- Nishnik, L. P. Multidimensional inverse scattering problems. (Russian) **86g:35203**
- Orlovskii, D. G. The inverse Cauchy problem for hyperbolic systems. (Russian) **86g:35204**
- See also Prilepko, A. I., **86a:35143**; **86i:35141a** and **86i:35141b**
- Prilepko, A. I. (with Orlovskii, D. G.) Inverse problems for hyperbolic systems. (Russian. English and Lithuanian summaries) **86a:35143**
- Inverse problems for potentials of elliptic equations. (Russian) **86j:35156**
- (with Ivankov, A. L.) Inverse problems of the determination of the coefficient and right-hand side of a nonstationary transport equation from overdeterminedness at a point. (Russian) **86i:35140**
- (with Orlovskii, D. G.) Determination of the parameter of an evolution equation and inverse problems of mathematical physics. I. (Russian) **86i:35141a**
- (with Orlovskii, D. G.) Determination of the parameter of an evolution equation and inverse problems of mathematical physics. II. (Russian) **86i:35141b**
- Pukhnachev, V. V. Two inverse problems of continuum mechanics. (Russian) **86i:35142**
- Ramm, A. G. On the inverse diffraction problem. **86b:35200**
- Description of the degree of nonuniqueness in inverse source problems. **86k:35156**
- Resnikakaya, K. G. Three-dimensional linearized inverse problem of a source. (Russian) **86c:35162**
- Romanov, V. G. ★ Обратные задачи математической физики. (Russian) [Inverse problems of mathematical physics] **86g:35205**
- Inverse problems of mathematical physics. (Russian) **86h:35134**
- (with Bidalbekov, E. Y.) On the theory of inverse problems of magnetotelluric sounding. (Russian) **86c:35146**
- Rundell, William The use of integral operators in undetermined coefficient problems for partial differential equations. **86j:35157**
- Sharafutdinov, V. A. See Kireltov, V. R., **86i:35139**
- Sharma, D. K. See Udawadia, F. E., **86d:35147**
- Shiota, Takahiro An inverse problem for the wave equation with first order perturbation. **86i:35143**
- Shpil'ker, G. L. Structure and reconstruction of hypercomplex wave fields. (Russian) **86b:35201**
- Sprekels, J. See Hoffmann, K. H., **86c:35161**
- Strakhov, V. N. (with Bondakii, M. A.) Uniqueness of the solution of a two-dimensional inverse problem of potential for polygons. (Russian) **86i:35144**
- Suzuki, Takashi Uniqueness and nonuniqueness in an inverse problem for the parabolic equations. **86g:35206**
- A stability theorem on the boundary identification for coefficients of hyperbolic equations. **86g:35207**
- Gelfand-Levitan's theory, deformation formulas and inverse problems. **86k:35157**
- Tanana, V. P. Regularization of a one-dimensional inverse problem of filtration in an inhomogeneous stratum. (Russian) **86i:35145**
- Tarasov, R. P. The inverse Cauchy problem for an equation of elliptic type. (Russian) **86g:35208**
- Udawadia, F. E. (with Sharma, D. K.) On the identification of continuous vibrating systems modelled by hyperbolic partial differential equations. **86i:35147**
- Vogelius, Michael See Kohn, Robert V., **86k:35155** and **(86i:00035)**
- Yakhno, V. G. Necessary and sufficient conditions for unique solvability of the one-dimensional inverse Lamb problem. (Russian) **86c:35163**
- Inverse problems for hyperbolic equations: the right-hand side is an instantaneous source situated on the boundary. (Russian) **86g:35209**
- secondary classifications (**35R30**)
- Ablowitz, Mark J. See Nachman, Adrian I., **86c:81123a** and **86c:81123b**
- Ambarzumyan, V. A. ★ Hakadards khindirner' bnagitov'tyan mej. (Armenian) [Inverse problems in the natural sciences] **86m:00023**
- Amirov, A. Kh. An inverse problem for a kinetic equation. (Russian) **86h:82036**
- A class of inverse problems for kinetic equations. (Russian) **86h:82037**
- Anger, Gottfried On the relationship between mathematics and its applications: a critical analysis by means of inverse problems. **86j:00020**
- Baev, A. V. Solution of an inverse problem for the wave equation using a regularizing algorithm. (Russian) **86f:65164**
- Basak, Shankar See Roy Chowdhury, A., **86h:35124**
- Beals, R. The inverse problem for ordinary differential operators on the line. **86g:34011**
- Beesley, R. S. (with Krueger, R. J.) An electromagnetic inverse problem for dispersive media. **86h:78012**
- Blagoveshchenskii, A. S. Inverse problems of the acoustics of moving media. (Russian) **86c:76039**
- Bruckstein, Alfred M. (with Levy, Bernard C.; Kailath, Thomas) Differential methods in inverse scattering. **86d:34020**
- Bukhgeim, A. L. (with Zerkal', S. M.; Pikalov, V. V.) An algorithm for solving a three-dimensional kinematic problem of seismics. (Russian) **86c:86001**
- Carroll, Robert Wayne (with Santosa, Fadil) Some transmutation methods in geophysics. **86c:86003**
- Colli Franzese, Piero Inverse problems in electrocardiology. **86j:92004**
- Colton, David (with Kirsch, Andreas) Dense sets and far field patterns in acoustic wave propagation. **86b:35032**
- Devitayn, V. M. Solution of the inverse potential problem in the case of three-dimensional laminar media based on complexing of surface and borehole gravimetry and borehole seismometry. (Russian) **86c:86004**
- Elisarov, A. M. (with Il'inskiĭ, N. B.; Potashev, A. V.) Quasisolutions of an inverse boundary value problem of hydroaerodynamics. (Russian) **86m:76053**
- Gabysheva, L. N. (with Kanibolot'skii, M. A.) Inverse problem of reconstruction of the coefficient of convective diffusion. (Russian) (Not in MR)
- Glushchenko, A. A. See Voloshin, V. S. et al., **86d:76031**

- Goncharuk, A. V. (with Sisakyan, I. N.; Stepanov, V. V.) Solvability of certain inverse problems of focusing laser radiation. (Russian) **86b:78022**
- Ilnakli, N. B. See Elizarov, A. M. et al., **86m:78053**
- Irkulov, I. Sh. See Sultangasin, U. M., **86g:86006**
- Jones, D. S. Note on a uniqueness theorem of Schiffer. **86k:35033**
- Kallish, Thomas See Bruckstein, Alfred M. et al., **86d:34020**
- Kaulbolot-skil, M. A. See Gabysheva, L. N. (Not in MR)
- Kanter, B. E. Reconstruction of smooth surfaces from given curvature functions. (Russian) **86e:53001**
- Khrushlov, E. Ya. One-dimensional inverse problems of electrodynamics. (Russian) **86g:78011**
- Kirsch, Andreas See Colton, David, **86b:35033** and Reemtsen, R., **86e:85139**
- Kluge, Reinhard Zur "Koeffizienten"bestimmung in linearen Operator- und Evolutionsgleichungen. [Determining the "coefficients" in linear operator and evolution equations] **86m:47001**
- Kosmodem'yanik, A. A., Jr. A problem with unknown boundary for elliptic equations. (Russian) **86j:35043**
- Krueger, R. J. See Bosley, R. S., **86h:78012**
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- Elianu, Jean Sur le calcul du nombre $[a, \alpha\beta, \alpha\beta^2, \dots, \alpha\beta^n, \dots]$. [Calculation of the number $[a, \alpha\beta, \alpha\beta^2, \dots, \alpha\beta^n, \dots]$] **86h:11008**
- Fabian, Ellis Inversion of Z-transforms by solving appropriately formulated nonconstant coefficient difference equations. **86a:44004**
- Gabeskiriya, M. A. (with Savell'ev, M. V.) Reduction of a two-dimensional generalized Toda lattice to a system of ordinary differential equations. (Russian. English and Georgian summaries) **86g:58072**
- Golovina, V. G. Preservation of the asymptotic behavior of solutions of difference equations under perturbations of the equations. (Russian) **86m:39005**
- Gruman, Lawrence Solutions of difference equations with nonconstant coefficients. **86f:32008**
- Kalries, H.-H. An inequality for Krull solutions of a certain difference equation. **86e:26022**
- Kametaka, Yoshinori On the confluent Euler-Poisson-Darboux equation and the Toda equation. **86c:35140a**
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On the Euler-Poisson-Darboux equation and the Toda equation. II. **86c:35140c**
- Koetin, V. I. Points of the extremum of a function. (Russian) **86j:49026**
- Kupersmidt, Boris Discrete Lax equations and differential-difference calculus. (French summary) **86m:58070**
- Lacroix, Jean The random Schrödinger operator in a strip. **86j:60149**
- Liverpool, L. S. O. See Baker, I. N., **86a:30041**
- Mather, John N. Nonexistence of invariant circles. **86i:58112**
- Micchelli, Charles A. See Dahmen, Wolfgang, **86k:41014**
- Mitropol'skii, Yu. A. (with Samolenko, V. Gr.) Differential-difference dynamical systems associated with the Dirac difference operator, and their complete integrability. (Russian) **86i:34084**
- Mukherjee, Manik Chandra Finite sums involving a function satisfying three-term recursion relation. **86m:33015**
- Nijhoff, F. W. (with Capel, H. W.; Wiersma, G. L.; Quispel, G. R. W.) Linearizing integral transform and partial difference equations. **86c:35144**
- Pais, A. Gamero A Laplace-like method for solving linear difference equations. **86a:44009**
- Potapova, T. P. On the problem of control of a linear discrete dynamic system under conditions of nonstatistically given uncertainty. (Russian) **86a:93074**
- Quispel, G. R. W. See Nijhoff, F. W. et al., **86c:35144**
- Reich, Axel Über Dirichletse Reihen und holomorphe Differentialgleichungen. (English summary) [On Dirichlet series and holomorphic differential equations] **86h:30006**
- Romanova, S. E. Approximate methods for solving, asymptotically in one and two additions per node, the Laplace difference equation. (Russian) **86d:65137**
- Rutkas, A. G. See Benabdallah, M., **86d:47013**
- Samolenko, V. Gr. See Mitropol'skii, Yu. A., **86i:34084**
- Savell'ev, M. V. See Gabeskiriya, M. A., **86g:58072**
- Stoklosa, Janusz Difference equations and (α, k) -machines. (Russian summary) **86m:68038**
- Wiersma, G. L. See Nijhoff, F. W. et al., **86c:35144**
- Wilmott, Paul A note on the WKB method for difference equations. **86j:65173**
- Yurachkovskii, A. P. A limit theorem for stochastic difference schemes. (Russian. English summary) **86f:60081**
- 39A11 Stability of difference equations**
- Agarwal, Ravi P. Properties of solutions of higher order nonlinear difference equations. II. **86h:39006**
- Alaikovich, A. A. Criteria for nonoscillation of a difference system. (Russian) **86a:39003**
- Cobos Bueno, José Stability sets for partial differential equations with permanent perturbations. (Spanish. English summary) **86g:39007**
- Ferreira, José M. Effects of commensurable delays in the stability of difference equations. **86m:39004**
- Fujimoto, Takao Stability of nonlinear homogeneous difference equations. **86e:39004**
- Golovina, V. G. Preservation of the asymptotic behavior of solutions of difference equations under perturbations of the equations. (Russian) **86m:39005**
- Griabanov, V. I. On the existence of solutions of systems of nonlinear equations. (Russian. English summary) (See **86g:34001**)
- Hooker, John W. See Kwong, Man Kam et al., **86c:39005**
- Kuntsevich, V. M. (with Lychak, M. M.) Some questions concerning the theory of evolution of sets (asymptotic estimates of the motion of systems described by difference inclusions). (Russian) **86m:39006**
- Kwong, Man Kam (with Hooker, John W.; Patula, William T.) Riccati type transformations for second-order linear difference equations. II. **86c:39005**
- Lapshina, R. B. Practical stability of ordinary difference systems. (Russian. English summary) **86j:39005**
- LeVeque, Randall J. (with Trefethen, Lloyd N.) On the resolvent condition in the Kreiss matrix theorem. **86c:39004**
- Li, Zhao Hua A note on the oscillatory property for nonlinear difference equations and differential equations. **86m:39007**
- Lychak, M. M. See Kuntsevich, V. M., **86m:39006**
- Papachinopoulos, Garyfalos (with Schinas, John) Conditions for exponential dichotomy of difference equations. (Serbo-Croatian summary) **86i:39004**
- Patula, William T. See Kwong, Man Kam et al., **86c:39005**
- Rusev, E. On the theory of stability of discrete periodic systems. (Russian. French summary) **86m:39008a**
- Criterion for asymptotic stability of the zero solution of a discrete periodic system. (Russian. French summary) **86m:39008b**
- Criterion for uniform asymptotic stability of discrete systems. (Russian. English and Bulgarian summaries) **86k:39004**
- Schinas, John See Papachinopoulos, Garyfalos, **86i:39004**
- Shimanov, S. N. (with Trusov, A. F.) Criterion for asymptotic stability of linear difference systems. (Russian) **86c:39005**
- Skof, Fulvia Approximation of δ -quadratic functions on a restricted domain. (Italian. English summary) **86k:39005**
- Talpalaru, Pavel On asymptotic properties of discrete-time systems with retarded argument. **86k:39006**
- Trefethen, Lloyd N. See LeVeque, Randall J., **86c:39004**
- Trusov, A. F. See Shimanov, S. N., **86c:39005**
- Yudaev, G. S. Some questions of the stability of difference equations in Banach space with respect to all and to part of the variables. (Russian) **86d:39004**
- secondary classifications (39A11)**
- Boehrnitsan, Michael "Orders of infinity" generated by difference equations. **86f:12002a**
- Boisek, Bogusław (with Mosurski, Ryszard) A difference scheme for an elliptic system of nonlinear differential-functional equations with Dirichlet type boundary conditions. The existence and uniqueness of solution. **86d:65130**
- Brown, Archibald A nonlinear difference equation with two parameters. **86c:39001**
- Chan, K. S. (with Tong, Howell) On the use of the deterministic Lyapunov function for the ergodicity of stochastic difference equations. **86m:60162**
- Gao, Guo Zhu See Ruan, Jiong et al. (Not in MR)
- Gille, J.-C. See Vidal, P. et al., **86b:93034**
- Huang, Zhen Xun See Ruan, Jiong et al. (Not in MR)
- Louboutin, Roland Sur un théorème de H. Poincaré relatif aux équations aux différences finies. (English summary) [On a theorem of H. Poincaré related to finite difference equations] **86c:39003**
- Mouraki, Ryssard See Boisek, Bogusław, **86d:65130**
- Ruan, Jiong (with Huang, Zhen Xun; Gao, Guo Zhu) The problem of the equivalence of the stability of neutral differential-difference equations and ordinary differential equations. (Chinese) (Not in MR)
- Schröder, Rolf Chaotisches Verhalten von Differenzgleichungen. [Chaotic behavior of difference equations] **86m:58105**
- Sedov, Yu. N. (with Skorynin, V. N.) Stabilization of a discrete periodic system in the critical case of one root. (Russian) **86m:93070**
- Sharkovskii, A. N. Oscillations of relaxation and turbulence type: differential-difference models. (Russian) **86k:58078**
- Skorynin, V. N. See Sedov, Yu. N., **86m:93070**
- Tong, Howell See Chan, K. S., **86m:60162**
- Vidal, P. (with Węgrzyn, S.; Gille, J.-C.) Analyse des systèmes évolutifs par la méthode des équations aux différences finies. (Russian and Polish summaries) [Analysis of evolution systems by the difference equation method] **86b:93034**
- Węgrzyn, S. See Vidal, P. et al., **86b:93034**
- 39A12 Discrete version of topics in analysis**
- Nikiforov, A. F. (with Uvarov, V. B.) Classical orthogonal polynomials of a discrete variable on nonuniform nets. (Russian) **86c:39006**
- Nikishin, E. M. The discrete Sturm-Liouville operator and some problems of function theory. (Russian. English summary) **86h:39007**
- Tu, Shih Tong A generalization of monodiffic Volterra integral equations. **86m:39009**
- Uvarov, V. B. See Nikiforov, A. F., **86c:39006**
- Vassilevski, P. S. Poincaré-Steklov operators for elliptic difference problems. **86k:39007**
- secondary classifications (39A12)**
- Agarwal, Ravi P. Properties of solutions of higher order nonlinear difference equations. II. **86h:39006**
(with Wilson, S. J.) On discrete inequalities involving higher order partial differences. **86b:26025**
- Al'mukhambetov, K. K. The averaging method in connection with parameter identification problems for countable systems. (Russian) (See **86f:34002**)
- Belyankov, A. Ya. (with Ryaben'kii, V. S.) A difference analogue of the apparatus of singular integral equations in the theory of boundary value problems. (Russian) **86c:65121**
- Budinčević, M. See Kulenović, Mustafa Rešad, **86m:39002**
- Cobos Bueno, José Stability sets for partial differential equations with permanent perturbations. (Spanish. English summary) **86g:39007**
- Ferreira, José M. Effects of commensurable delays in the stability of difference equations. **86m:39004**
- Fujimoto, Takao Stability of nonlinear homogeneous difference equations. **86e:39004**
- Ghirardi, G. C. (with Weber, Tullio) Finite-difference evolution equations and quantum-dynamical semigroups. **86a:82007**
- Golitsyna, A. G. The spectrum of the Schrödinger operator on a homogeneous tree. (Russian) **86m:81036**
- Hooker, John W. See Kwong, Man Kam et al., **86c:39005**
- Kayano, Takashi (with Yamasaki, Maresugu) Boundary limit of discrete Dirichlet potentials. **86j:31007**
- Kulenović, Mustafa Rešad (with Budinčević, M.) Asymptotic analysis of nonlinear second order difference equation. **86m:39002**
- Kwong, Man Kam (with Hooker, John W.; Patula, William T.) Riccati type transformations for second-order linear difference equations. II. **86c:39005**
- Li, Zhao Hua A note on the oscillatory property for nonlinear difference equations and differential equations. **86m:39007**
- Máté, Attila (with Nevai, Paul) Sublinear perturbations of the differential equation $y^{(n)} = 0$ and of the analogous difference equation. **86d:34062**

- Narita, Kazuaki Discontinuous solitons for discrete sine-Gordon equation. **86e:81033**
- Neval, Paul See **M444**, Attila, **86d:34063**
- Nikiforov, A. F. (with Suvlov, S. K.; Uvarov, V. B.) Construction of particular solutions for a difference equation of hypergeometric type. (Russian) **86g:39006**
- Papachinopoulos, Garyfalos (with Schinas, John) Conditions for exponential dichotomy of difference equations. (Serbo-Croatian summary) **86i:39004**
- (with Schinas, John) Criteria for an exponential dichotomy of difference equations. **86f:39001**
- Patula, William T. See Kwong, Man Kam et al., **86e:39005**
- Peterson, Allan C. Boundary value problems for an n th order linear difference equation. **86b:39003**
- Robert, F. Analogies entre itérations continues et itérations discrètes. [Analogies between continuous iterations and discrete iterations] **86m:58098**
- Rodríguez, Jesús On resonant discrete boundary value problem. **86k:39003**
- Ryaben'kiĭ, V. S. See Belyankov, A. Ya., **86c:65121**
- Schinas, John See Papachinopoulos, Garyfalos, **86f:39001** and **86i:39004**
- Smirnova, T. G. A case of partial aggregation of a dynamic system. (Russian) **86f:58144**
- Suvlov, S. K. See Nikiforov, A. F. et al., **86g:39006**
- Szustalewicz, A. On orthogonal decomposition of two-dimensional vector fields. **86b:65116**
- Uvarov, V. B. See Nikiforov, A. F. et al., **86g:39006**
- Weber, Tullio See Ghirardi, G. C., **86a:82007**
- Wilson, S. J. See Agarwal, Ravi P., **86b:26025**
- Yamasaki, Maretsugu See Kayano, Takashi, **86j:31007**
- Yang, En Hao On some new discrete inequalities of the Bellman-Bihari type. **86b:26033**

39A70 Difference operators [See also 47B39.]

- Alaikovich, A. A. Nonoscillation and factorization of an associated difference operator. (Russian) **86d:39005**
- Baĭramov, E. M. Conditions for discreteness of the spectrum of a second-order nonselfadjoint difference operator. (Russian. English and Azerbaijani summaries) **86g:39008**
- Gajda, Zbigniew On some properties of Hamel bases connected with the continuity of polynomial functions. **86e:39006**
- Slyusarchuk, V. E. Invertibility of linear nonautonomous difference operators in the space of bounded functions on \mathbb{Z} . (Russian) **86m:39010**

secondary classifications (39A70)

- Aomoto, Kazuhiko Spectral theory on a free group and algebraic curves. **86m:58127**
- Baĭramov, E. M. A condition for finiteness of the discrete spectrum of a second-order nonselfadjoint difference operator on the semiaxis. (Russian. English and Azerbaijani summaries) **86m:47063**
- Duval, Anne Lemmes de Hensel et factorisation formelle pour les opérateurs aux différences. [Hensel lemmas and formal factorization for difference operators] **86h:13011**
- Kurbatov, V. G. Local Fredholm property of a difference operator. (Russian) **86c:47063**
- Shubin, M. A. Pseudodifference operators and their inversion. (Russian) **86i:47041**
- Vassilevski, P. S. Poincaré-Steklov operators for elliptic difference problems. **86k:39007**
- Wilkinson, Michael An example of phase holonomy in WKB theory. **86b:81035**

39A99 None of the above, but in this section

secondary classifications (39A99)

- Farwig, R. (with Zwick, D.) Some divided difference inequalities for n -convex functions. **86k:26011**
- Zwick, D. See Farwig, R., **86k:26011**

39Bxx Functional equations [See also 30D05.]

39B05 General

- Bajraktarević, Mahmud (with Bajraktarević, Nedžad) Sur une équation fonctionnelle appliquée à une équation différentielle aux dérivées partielles du second ordre. (English and Serbo-Croatian summaries) [A functional equation applied to a second-order partial differential equation] **86m:39011**
- Bajraktarević, Nedžad See Bajraktarević, Mahmud, **86m:39011**
- Crstici, B. (with Neagu, M.) About some functional definitions of the means. **86j:39006**
- (with Muntean, Ioan; Vornicescu, Neculae) General solution of the arctangent functional equation. **86b:39005**
- Fenyő, I. (with Paganoni, L.) Sur la connexion entre une équation fonctionnelle et l'équation différentielle des fonctions elliptiques Jacobiennes. [The connection between a functional equation and the differential equation for Jacobian elliptic functions] **86f:39002**
- Ger, Roman Almost approximately additive mappings. **86k:39008**
- Hyers, D. H. The stability of homomorphisms and related topics. **86a:39004**
- Koćić, Jovan D. On general solutions of some functional equations. **86h:39008**
- Lozoncal, L. An extension theorem. **86i:39005**
- Mullin, R. C. A remark on generalized iterates. **86d:39006**
- Muntean, Ioan See Crstici, B. et al., **86b:39005**
- Neagu, M. See Crstici, B., **86j:39006**
- Paganoni, L. See Fenyő, I., **86f:39002**
- Pokropp, F. The functional equation of aggregation with weakly monotonically increasing functions. **86h:39009**
- Sander, Wolfgang On a sum form functional equation. **86i:39006**
- Steinmetz, Norbert (with Volkman, Peter) Funktionalgleichungen für konstante Funktionen. [Functional equations for constant functions] **86e:39007**
- Volkman, Peter See Steinmetz, Norbert, **86e:39007**
- Vornicescu, Neculae See Crstici, B. et al., **86b:39005**

secondary classifications (39B05)

- Haruki, Hiroshi A proof of Euler's identity by a functional equation. **86c:30045**
- Papp, F. J. The d'Alembert functional equation. **86g:39003**
- Vincse, Istvan Contribution to a characterization problem. **86c:00026**

39B10 Equations containing iterates, equations of rank one

- Chocsewski, Bogdan (with Kuczma, Marek) On a system of functional equations. **86k:39009**
- Gronau, Detlef Über die multiplikative Translationsgleichung und idempotente Potenzreihenvektoren. (English summary) [On the multiplicative translation equation and idempotent vectors of power series] **86i:39007**
- Hammerley, J. M. Functional roots and indicial semigroups. **86c:39007**
- Jarczyk, Witold On solutions of a certain functional-integral equation. **86m:39012**
- On linear homogeneous functional equations in the indeterminate case. **86m:39013**
- Kuczma, Marek See Chocsewski, Bogdan, **86k:39009**
- McCarthy, Patrick J. (with Stephenson, W.) The classification of the conjugacy classes of the full group of homeomorphisms of an open interval and the general solution of certain functional equations. **86j:39007**
- Nawrocki, Jan On the existence of C^r solutions of a functional equation containing a superposition of the unknown function. **86m:39014**
- Stephenson, W. See McCarthy, Patrick J., **86j:39007**
- Szekeeres, G. Scales of infinity and Abel's functional equation. **86h:39010**
- Varlamov, V. I. Bounded solutions of a nonlinear recursive system with two unknowns. (Russian) **86m:39015**
- Volkman, Lutz (with Volkman, Peter) Über die Charakterisierung der Funktion $f(x) = x$ durch Funktionalgleichungen. I. [On the characterization of the function $f(x) = x$ by functional equations. I] **86c:39008**
- Volkman, Peter See Volkman, Lutz, **86c:39008**
- Zdun, Marek Cesary Iteration semigroups with restricted domain. **86m:39016**
- Zhao, Li Ren Existence and uniqueness theorem for the solution of the functional equation $\lambda_1 f(x) + \lambda_2 f^{(2)}(x) = F(x)$. (Chinese) **86b:39006**

secondary classifications (39B10)

- Abel, Ulrich A note on the parameters of rational iteration groups. **86b:54042**
- Downey, Peter J. (with Griswold, Ralph E.) On a family of nested recurrences. **86c:11013**
- Griswold, Ralph E. See Downey, Peter J., **86c:11013**
- Kotomiseva, L. A. (with Loiko, N. A.; Samson, A. M.) Development of irregular auto-oscillations in a nonlinear system with lagging. **86j:58114**
- Lanford, Oscar, III Functional equations for circle homeomorphisms with golden ratio rotation number. **86a:58064**
- Loiko, N. A. See Kotomiseva, L. A. et al., **86j:58114**
- Mira, Ch. Équation de Schröder et solution des récurrences. Généralisation des polynômes de Tchebycheff. [Schröder's equation and solution of recurrences. Generalization of Chebyshev polynomials] (See **86g:58080**)
- Chaotic dynamics in point mappings relations between one-dimensional endomorphism and two-dimensional diffeomorphism. (Russian summary) **86m:58116**
- Mityushev, V. V. A linear functional equation in a class of analytic functions. (Russian) **86c:30023**
- Polyukh, G. P. On the behaviour of solutions of the system of nonlinear functional equations. (See **86g:58080**)
- Reich, Ludwig Iteration problems in power series rings. (See **86g:58080**)
- Samson, A. M. See Kotomiseva, L. A. et al., **86j:58114**
- Sourlas, P. Récurrences avec solutions explicites. [Recurrences with explicit solutions] (See **86g:58080**)
- Targónski, György Unsolved problems in iteration theory. **86m:58079**
- ★ New directions and open problems in iteration theory. **86i:26004**
- Vamanamurthy, M. K. (with Walker, W. J.) Difference equations in the complex plane. **86j:30035**
- Walker, W. J. See Vamanamurthy, M. K., **86j:30035**
- Wallis, G. Bifurkationssequenzen bei der numerischen Lösung gewöhnlicher Differentialgleichungen und bei iterierten Intervall-Abbildungen. [Bifurcation sequences for the numerical solution of ordinary differential equations and for iterated interval mappings] **86h:65191**

39B20 Equations for one unknown function of one variable, rank greater than one

- Aczél, J. Related functional equations applied to Korovkin approximation and to the characterization of Rényi entropies—links to the uniqueness theory. **86f:39003**
- Baron, Karol On integrable solutions of some functional equations. **86d:39007**
- (with Jarczyk, Witold) On approximate solutions of functional equations of countable order. **86h:39011**
- Crstici, B. (with Muntean, Ioan; Vornicescu, Neculae) General solution of the arctangent functional equation. **86j:39008**
- (with Neagu, M.) About a functional equation related with the Pompeiu group. **86g:39009**
- Daróczy, Z. (with Páles, Zolt) Multiplicative mean values and entropies. **86c:39008**
- (with Kotora, E.) Die Aczél-Benšace Funktionalgleichung auf der additiven Gruppe der ganzen Zahlen. [The Aczél-Benšace functional equation on the additive group of integers] **86d:39008**
- Elliott, P. D. T. A. Cauchy's functional equation in the mean. **86d:39009**
- Fenyő, I. Solution générale d'une équation fonctionnelle dans le domaine des fonctions analytiques. [General solution of a functional equation in the domain of analytic functions] **86c:39009**
- Forti, G. L. Redundancy conditions for the functional equation $f(x + h(x)) = f(x) + f(h(x))$. (German and Russian summaries) **86c:39010**

- Jarczyk, Witold See Baron, Karol, 86h:39011
- Kannappan, P. (with Sahoo, P. K.) On a functional equation connected to sum form nonadditive information measures on an open domain. 86c:39011
- Kotara, E. See Daróczy, Z., 86d:39008
- Kuczma, Marek ★ An introduction to the theory of functional equations and inequalities. 86i:39008
- Lau, Ka Sing (with Rao, Callyampuli Radhakrishna) Solution to the integrated Cauchy functional equation on the whole line. 86m:39017
- Looncel, L. Sum form equations on an open domain. I. 86i:39009
- Mullere, Pietro A note on associative operations, integral transforms and characterization problems in statistics. (Italian. English summary) 86k:39010
- Muntean, Ioan See Cristici, B. et al., 86j:39008
- Neagu, M. See Cristici, B., 86g:39009
- Páles, Zolt See Daróczy, Z., 86c:39008
- Pelyukh, G. P. An m th order nonlinear functional equation. (Russian) 86b:39007
- Rao, Callyampuli Radhakrishna See Lau, Ka Sing, 86m:39017
- Sahoo, P. K. See Kannappan, P., 86c:39011
- Schroth, Peter Note on initial topologies on rational vector spaces induced by realvalued linear mappings. 86g:39010
- Segal, S. L. On Nathanson's functional equation. 86d:39010
- Vornicescu, Neculae See Cristici, B. et al., 86j:39008

secondary classifications (39B20)

- Babenko, K. I. (with Petrovich, V. Yu.) Demonstrative calculations in the problem of existence of the solution of the doubling equation. (Russian) 86f:58112
- Badiale, Marino Some characterisation of the q -gamma function by functional equations. I. (Italian summary) 86b:33001a
- Some characterisation of the q -gamma function by functional equations. II. (Italian summary) 86b:33001b
- Baker, John A. A note on iteration groups. 86g:28003
- Dhombres, Jean Autour de $f(x)f(y) - f(xy)$. [On $f(x)f(y) - f(xy)$] 86b:39008
- Ger, Roman Almost approximately additive mappings. 86k:39008
- Nawrocki, Jan On the existence of C^∞ solutions of a functional equation containing a superposition of the unknown function. 86m:39014
- Neagu, M. About the Pompeiu equation in distributions. (Romanian summary) 86i:46044
- Petrovich, V. Yu. See Babenko, K. I., 86f:58112
- Smítal, J. On a problem of Aczél and Erdős concerning Hamel bases. 86e:04004
- Villella-Bressan, Rosanna Functional equations of delay type in L^1 spaces. 86j:47087
- Zhao, Li Ren Existence and uniqueness theorem for the solution of the functional equation $\lambda_1 f(x) + \lambda_2 f^{(2)}(x) = F(x)$. (Chinese) 86b:39006

39B30 Equations for several unknown functions of one variable, systems

- Aczél, J. (with Paganoni, L.) A generalization of affine functions. 86k:39011
- A mean value property of the derivative of quadratic polynomials—without mean values and derivatives. 86c:39012
- Dhombres, Jean Autour de $f(x)f(y) - f(xy)$. [On $f(x)f(y) - f(xy)$] 86b:39008
- Fenyő, I. On the general solution of a system of functional equations. 86m:39018
- Goyal, A. N. See Vyas, R. L., 86e:39009
- Haruki, S. Note on the equation $f(x)g(y) = h(ax + by)k(cx + dy)$ and generalized quadratic polynomials. 86a:39005
- Kannappan, P. On a generalization of sum form functional equation. I. 86h:39012
- Lajkó, K. Some general functional equations. 86d:39011
- McKiernan, M. A. Mountain climbing: an alternate proof. 86d:39012
- Paganoni, L. See Aczél, J., 86k:39011
- Pelyukh, G. P. On the behaviour of solutions of the system of nonlinear functional equations. (See 86g:58080)
- Investigation of systems of nonlinear functional equations in a neighborhood of singular points. (Russian) 86h:39013
- Representation of continuous systems of nonlinear functional equations. (Russian) 86h:39014
- Rzepecki, Bogdan On a system of functional equations. 86m:39019
- Vyas, R. L. (with Goyal, A. N.) On continuous solutions of a functional equation. 86e:39009

secondary classifications (39B30)

- Chocsewski, Bogdan (with Kuczma, Marek) On a system of functional equations. 86k:39009
- Daróczy, Z. (with Páles, Zolt) Multiplicative mean values and entropies. 86c:39008
- Kannappan, P. (with Ng, C. T.) On a generalized fundamental equation of information. 86f:94016
- Kuczma, Marek See Chocsewski, Bogdan, 86k:39009
- Ng, C. T. See Kannappan, P., 86f:94016
- Páles, Zolt See Daróczy, Z., 86c:39008

39B40 Equations for functions of several variables

- Aczél, J. (with Alsina, Claudi) Characterizations of some classes of quasilinear functions with applications to triangular norms and to synthesizing judgements. 86f:39004
- Alsina, Claudi See Aczél, J., 86f:39004
- Cholewa, Piotr W. The stability problem for a generalized Cauchy type functional equation. 86c:39013
- Kannappan, P. On two functional equations from information theory. 86h:39015
- Lundberg, Anders Generalized distributivity for real, continuous functions. II. Local solutions in the continuous case. 86k:39012
- Ng, C. T. On a functional equation related to income inequality measures. 86d:39013
- Vasić, P. M. Note on a functional equation proposed by M. Bertolino. 86c:39014
- Zdun, Marek Cesary Regular fractional iterations. 86h:39016

secondary classifications (39B40)

- Bertolussa, Carlo (with Bonzani, I.) On a generalization of the notion of branching in information theory. (Italian. English summary) 86h:94014
- Billinski, Stanko Zur Charakterisierung des Doppelverhältnissbegriffes durch Funktionalgleichungen. (English and Serbo-Croatian summaries) [On the characterization of the concept of cross ratio by functional equations] 86k:51018
- Birsan, T. Une application d'un théorème de J. Aczél. [An application of a theorem of J. Aczél] 86f:54047
- Bonzani, I. See Bertolussa, Carlo, 86h:94014
- Daróczy, Z. (with Páles, Zolt) Multiplicative mean values and entropies. 86c:39008
- (with Kotara, E.) Die Aczél-Benzsche Funktionalgleichung auf der additiven Gruppe der ganzen Zahlen. [The Aczél-Benz functional equation on the additive group of integers] 86d:39008
- Fenyő, I. On the general solution of a system of functional equations. 86m:39018
- Hooda, D. S. A functional equation connected with relative "useful" information. 86e:94010
- Kotara, E. See Daróczy, Z., 86d:39008
- Páles, Zolt See Daróczy, Z., 86c:39008
- Weißkämper, Jürgen Embeddings in iteration groups and semigroups with nontrivial units. 86h:58081

39B50 Functional equations on algebraic structures

- Alsina, Claudi On three functional equations in the semigroup $\tau_{T,L}$ of distribution functions. (Catalan. English summary) 86h:39017
- Billinski, Stanko Die zu einer Gruppe gehörenden Funktionalgleichungen. (English and Serbo-Croatian summaries) [The functional equations belonging to a group] 86k:39013
- Burlacu, E. (with Cristici, B.; Neagu, M.) About the homomorphisms of the additive group R in some groups of real linear binary relations. (Romanian summary) 86d:39014
- Cristici, B. See Burlacu, E. et al., 86d:39014
- Daróczy, Z. (with Kátai, I.) On additive number-theoretical functions with values in a compact abelian group. 86i:39010
- Kátai, I. See Daróczy, Z., 86i:39010
- Krapel, A. (with Taylor, Mark Adrian) On the Pexider equation. 86e:39010
- Neagu, M. See Burlacu, E. et al., 86d:39014
- Pap, Endre A note on some convergences on semigroups. (Serbo-Croatian summary) 86m:39020
- Smajdor, A. Measurable semigroups of multivalued functions. (See 86g:58080)
- Székelyhidi, L. Regularity properties of polynomials on groups. 86h:39018a
- Regularity properties of exponential polynomials on groups. 86h:39018b
- Taylor, Mark Adrian Some varieties of groupoids which consist of abelian group or group isotopes. 86g:39011
- See also Krapel, A., 86e:39010

secondary classifications (39B50)

- Datta, Jayantakumar On two theorems of S. Kurepa. 86h:28002
- Fenyő, I. On the general solution of a system of functional equations. 86m:39018
- Gajda, Zbigniew Additive and convex functions in linear topological spaces. 86a:39007
- Gronau, Detlef Über die multiplikative Translationsgleichung und idempotente Potenzreihenvektoren. (English summary) [On the multiplicative translation equation and idempotent vectors of power series] 86i:39007
- Lawrence, John W. The stability of multiplicative semigroup homomorphisms to real normed algebras. I. 86d:46041
- Mullere, Pietro A note on associative operations, integral transforms and characterization problems in statistics. (Italian. English summary) 86k:39010
- Nishioke, Keiji Algebraic function solutions of a certain class of functional equations. 86g:11042
- Volkman, Peter Sur les fonctions simultanément suradditives et surmultiplicatives. [On functions that are simultaneously superadditive and supermultiplicative] 86c:39016

39B60 Matrix functional equations

secondary classifications (39B60)

- Gronau, Detlef Über die multiplikative Translationsgleichung und idempotente Potenzreihenvektoren. (English summary) [On the multiplicative translation equation and idempotent vectors of power series] 86i:39007

39B70 Functional equations on abstract spaces or structures

- Alsina, Claudi A characterization of convolution and related operations. 86g:39012
- Antonevich, A. B. A class of functional equations in spaces of differentiable functions. (Russian. English summary) 86h:39019
- Field, D. A. Convergence theorems for matrix continued fractions. 86a:39006
- Gajda, Zbigniew Additive and convex functions in linear topological spaces. 86a:39007
- Gvaramiya, A. A. Functional equations of quasigroups, which are connected with partial identities of general associativity. (Russian) (Not in MR)
- Kwapień, Marian Some remarks on abstract form of iterative methods in functional equation theory. 86c:39015
- Reich, Ludwig (with Schwaiger, Jens) Über algebraische Relationen zwischen additiven und multiplikativen Funktionen. [On algebraic relations between additive and multiplicative functions] 86d:39015
- Schwaiger, Jens See Reich, Ludwig, 86d:39015
- Vukman, J. Some results concerning the Cauchy functional equation in certain Banach algebras. 86f:39005

secondary classifications (39B70)

- Gupta, Manjul (with Kamthan, P. K.) Dominating sequences and functional equations. 86b:46015
- Kamthan, P. K. See Gupta, Manjul, 86b:46015
- Lesigne, Emmanuel Résolution d'une équation fonctionnelle. (English summary) [Solution of a functional equation] 86b:22018
- Miller, John Boris The Euler-Maclaurin sum formula for a closed derivation. 86d:47043
- Páles, Zolt On the characterization of means defined on a linear space. 86d:26024

39B99 None of the above, but in this section

secondary classifications (39B99)

- Acsá, J. On weighted synthesis of judgements. 86g:90008
- Crampin, M. See McCarthy, Patrick J. et al., 86d:58057
- Kusano, Takasi (with Usami, Hiroyuki) Positive solutions of a class of second order semilinear elliptic equations in the plane. 86b:35054
- McCarthy, Patrick J. (with Crampin, M.; Stephenson, W.) Graphs in the plane invariant under an area preserving linear map and general continuous solutions of certain quadratic functional equations. 86d:58057
- Stephenson, W. See McCarthy, Patrick J. et al., 86d:58057
- Tashković, Milan R. Some theorems on fixed points and their applications. 86f:54083
- Usami, Hiroyuki See Kusano, Takasi, 86b:35054

39C05 Functional inequalities [See also 26Dxx.]

- Acsá, J. (with Kannappan, P.; Ng, C. T.; Wagner, Carl G.) Functional equations and inequalities in "rational group decision making". 86j:39009
- Agarwal, Ravi P. Sharp estimates for the Wendroff discrete inequality in n independent variables. 86m:39021
- Allard, Jacques (with Ghisa, Dorin) Mean values depending on some general functions. 86b:39020a
- Aleina, Claudia A functional inequality for distribution functions. 86i:39011
- Cholewa, Piotr W. Remarks on the stability of functional equations. 86d:39016
- Ghisa, Dorin On Clarkson inequalities. 86b:39020b
- See also Allard, Jacques, 86b:39020a
- Kannappan, P. See Acsá, J. et al., 86j:39009
- Laban, Miloš M. On some functional inequalities. (Serbo-Croatian summary) 86a:39008
- Lachkovich, Mikiš A generalization of Kemperman's functional inequality $2f(x) \leq f(x+h) + f(x+2h)$. 86b:39021
- Ng, C. T. See Acsá, J. et al., 86j:39009
- Powąska, Zbigniew Differentiable solutions of a functional inequality. 86j:39010
- Volkman, Peter Sur les fonctions simultanément suradditives et surmultiplicatives. [On functions that are simultaneously superadditive and supermultiplicative] 86c:39016
- Wagner, Carl G. See Acsá, J. et al., 86j:39009

secondary classifications (39C05)

- Agall, Núrila Concavity of t -norms and triangular functions. (Spanish. English summary) 86c:26018
- Csornai, Marek Comparison theorem for a functional inequality. 86c:26021
- Hyers, D. H. The stability of homomorphisms and related topics. 86a:39004
- Kuttner, B. (with Maddox, I. J.) Inequalities between functionals on bounded sequences. 86m:40012
- Maddox, I. J. See Kuttner, B., 86m:40012
- Tardiff, Robert M. On a generalized Minkowski inequality and its relation to dominates for t -norms. 86j:26013

40-XX SEQUENCES, SERIES, SUMMABILITY

40-02 Advanced exposition (research surveys, monographs, etc.)

secondary classifications (40-02)

- Suetin, P. K. ★ Ряды по многочленам Фабера. (Russian) [Series of Faber polynomials] 86f:30004

40-03 Historical (must also be assigned at least one classification number from Section 01)

secondary classifications (40-03)

- (Euler, Leonhard) See Kline, Morris, 86a:01020 and Mills, Stella, 86i:01025
- Kline, Morris Euler and infinite series. 86a:01020
- (MacLaurin, Colin) See Mills, Stella, 86i:01025
- Mills, Stella The independent derivations by Leonhard Euler and Colin MacLaurin of the Euler-Maclaurin summation formula. 86i:01025

40Axx Convergence and divergence of infinite limiting processes

40A05 Convergence and divergence of series and sequences

- Biller, Piotr Dini type theorems on positive series. 86m:40001
- Chen, Jie Cheng On divergence criteria for positive series. (Chinese. English summary) 86a:40001
- Cheng, Nai Yi See Zhao, Xian Zeng et al. (Not in MR)

- Dawson, David F. Sequences having certain nonabsolute variation properties. (Italian summary) 86d:40001

Feng, Shi Yi See Zhao, Xian Zeng et al. (Not in MR)

- Foster, D. M. E. (with Phillips, G. M.) The approximation of certain functions by compound means. 86b:40001

- Martić, Branislav On some theorems of Hardy and Karamata. (Serbo-Croatian summary) 86g:40001

- Megrabyan, R. M. The set of limit points of partial sums of vector series. (Russian. Armenian summary) 86k:40001

- Mikusinski, Piotr Bases of convergence and diagonal conditions. (Italian summary) 86b:40002

- Miller, Harry I. Rates of convergence and topics in summability theory. (Serbo-Croatian summary) 86b:40001

- Phillips, G. M. See Foster, D. M. E., 86b:40001

- Rawthorne, Daniel A. Imitation of an iteration. 86i:40001

- Salát, Tibor On exponents of convergence of subsequences. 86b:40002

- Shawyer, B. L. R. A Toeplitz-type theorem for paths. 86f:40001

- Tesin, A. M. Some tests for the convergence of numerical series. (Russian) 86j:40001

- Zemlyan, Stephen M. On two conjectures concerning the partial sums of the harmonic series. 86m:40002

- Zhao, Xian Zeng On an extension of Cauchy's test for series of positive terms. (Chinese) 86f:40002

- (with Feng, Shi Yi; Cheng, Nai Yi) The sums of some convergent subseries of the harmonic series. (Chinese. English summary) (Not in MR)

- Zhou, Jia Yun (with Zhou, Song Kuan) On the equivalence of two tests. (Chinese) (Not in MR)

- Zhou, Song Kuan See Zhou, Jia Yun (Not in MR)

- Zhou, Ying An identity for series and its applications. (Chinese) 86e:40001

secondary classifications (40A05)

- Chobanyan, S. A. The structure of a set of sums of a conditionally convergent series in Banach space. (Russian) 86b:46020
- Drăghiceanu, I. C. On the generalized aspects of Kronecker lemma and some of their applications. 86b:40046
- Filimonova, L. A. Some properties of multiple factorial series. (Russian) 86f:40005
- Freiling, Chris Banach games. 86c:03046
- Kano, Takeshi On the limits of simple means. (Not in MR)
- Karadžić, L. On the convergence of Dirichlet's series. (Serbo-Croatian summary) 86d:30012
- Leth, Steven A uniqueness condition for sequences. 86b:26027
- Megrabyan, R. M. The set of sums of function series in the spaces L_p . (Russian) 86m:40013
- Popenda, Jerry On the asymptotic behaviour of the solutions of an n th order difference equation. 86a:39002
- Sternheimer, R. M. A corollary to iterated exponentiation. 86j:11030

40A10 Convergence and divergence of integrals

secondary classifications (40A10)

- Ram, Babu Integrability of power series. 86m:41035

40A15 Convergence and divergence of continued fractions [See also 30B70.]

- Batyuk, Yu. R. (with Syavavko, M. S.) Integral continued fractions. (Russian. English summary) 86a:40002
- Borodin, V. A. A remark on a theorem of Scott and Wall. (Russian) 86j:40002
- Jacobsen, Lisa (with Magnus, Arne) On the convergence of limit periodic continued fractions $K(a_n/1)$, where $a_n \rightarrow -1/4$. 86c:40003
- Magnus, Arne See Jacobsen, Lisa, 86c:40003
- Nedashkovskii, N. A. Sufficient tests for convergence of branching continued fractions. (Russian) 86d:40002a
- Convergence and computational stability of branching continued fractions of certain types. (Russian) 86d:40002b
- Odnovolova, T. N. Some estimates of the error of calculation of integral continued fractions. (Russian. English summary) 86g:40002
- Syavavko, M. S. See Batyuk, Yu. R., 86a:40002

secondary classifications (40A15)

- Adiga, Chandrashekar See Bhargava, Srinivasamurthy, 86g:11007
- Bhargava, Srinivasamurthy (with Adiga, Chandrashekar) On some continued fraction identities of Srinivasa Ramanujan. 86g:11007
- de Brulin, Marcel G. New convergence results for continued fractions generated by four-term recurrence relations. 86b:11048
- Caliceti, E. (with Grecchi, V.; Levoni, S.; Maioli, M.) The exponential anharmonic oscillator and the Stieltjes continued fraction. (Italian summary) 86i:81039
- Della Dora, J. Quelques notions sur les approximations de Padé. (English summary) [Some remarks on Padé approximants] 86d:41022
- Eliana, Jean Sur le calcul du nombre $[\alpha, \alpha\beta, \alpha\beta^2, \dots, \alpha\beta^n, \dots]$. [Calculation of the number $[\alpha, \alpha\beta, \alpha\beta^2, \dots, \alpha\beta^n, \dots]$] 86b:11008
- Field, D. A. Convergence theorems for matrix continued fractions. 86a:39006
- Grecchi, V. See Caliceti, E. et al., 86i:81039
- Ismail, Mohammed New z -domain continued fraction expansions. 86i:93030
- Levoni, S. See Caliceti, E. et al., 86i:81039
- Maioli, M. See Caliceti, E. et al., 86i:81039
- Rye, Egil (with Waadeland, Haakon) Reflections on value regions, limit regions and truncation errors for continued fractions. 86i:30003
- Tognetti, Keith See Van Ravenstein, Tony et al., 86j:11013
- Van Ravenstein, Tony (with Winley, Graham; Tognetti, Keith) A property of convergents to the golden mean. 86j:11013

Wasseland, Haakon See Rye, Egil, 86i:30003

Winley, Graham See Van Ravenstein, Tony et al., 86j:11013

40A20 Convergence and divergence of infinite products

secondary classifications (40A20)

Welstead, Stephen T. Infinite products in a Banach algebra. 86h:46078

40A25 Approximation to limiting values (summation of series, etc.) {For the Euler-Maclaurin summation formula, see 65B15.}

Schwarz, Wolfgang Karl Another evaluation of an Erdős-Turán constant. 86m:40003
Sorokin, G. A. Some transformations of series. (Russian) 86f:40003

secondary classifications (40A25)

Bowers, Wayne A. More about approximations to $n!$. 86i:85008c

Dence, Joseph B. Reply to a letter by Weissman on Stirling's approximation. 86i:85008b

Foster, D. M. E. (with Phillips, G. M.) The approximation of certain functions by compound means. 86h:40001

Germain-Bonne, Bernard Conditions suffisantes d'accélération de la convergence. [Sufficient conditions for acceleration of convergence] 86g:85015

Longman, I. M. The summation of power series and Fourier series. 86f:55021

Martić, Branislav On some theorems of Hardy and Karamata. (Serbo-Croatian summary) 86g:40001

Mermin, N. David Improving an improved analytical approximation to $n!$. 86i:85008a

Pathria, R. K. Mathematical basis for Weissman's approximation to $n!$. 86i:85008e

Phillips, G. M. See Foster, D. M. E., 86h:40001

Shi, Xian Liang (with Wang, Mei Qin) Saturation classes of Riesz means of subsequences of Fourier series. (Chinese) 86d:42003

Vedder, John D. Analytical approximations to $n!$. 86i:85008d

Wang, Mei Qin See Shi, Xian Liang, 86d:42003

40A30 Convergence and divergence of series and sequences of functions

Großjean, C. C. Proof of a remarkable identity. 86a:40002

Martić, Branislav Note on some Mercerian theorem. 86j:40003

secondary classifications (40A30)

Beer, Gerald More on convergence of continuous functions and topological convergence of sets. 86e:54018

40A99 None of the above, but in this section

Bresinaki, Claude Vitesse de convergence d'une suite. [Speed of convergence of a sequence] 86k:40002

40B05 Multiple sequences and series (should also be assigned at least one other classification number in this section)

Bareladze, G. P. Unconditional convergence of multiple series. (Russian. English and Georgian summaries) 86f:40004

Fillimonova, L. A. Some properties of multiple factorial series. (Russian) 86f:40005

Mérics, F. On the restricted Cesàro summability of multiple orthogonal series. 86e:40004

secondary classifications (40B05)

Tandori, K. See Totik, V., 86i:42014

Totik, V. (with Tandori, K.) Remarks on the convergence of orthogonal series. 86i:42014

40Cxx General summability methods

40C05 Matrix methods

Başar, F. (with Östürk, E.) On a generalization of the dual summability methods. (Turkish summary) 86i:40002

Chandra, Prem (with Mohapatra, Ram Narayan) Inequalities which yield inclusions among sequence spaces containing l_p . 86f:40006

Connor, Jeff A short proof of Steinhaus' theorem on summability. 86h:40003

Davydov, N. A. Criteria for the summability of a divergent sequence to the boundary point of its kernel by a regular positive matrix. (Russian) 86c:40001

Lee, Peng Yee See Lim, Suat Khoh, 86j:40004

Lim, Suat Khoh (with Lee, Peng Yee) On matrix transformations between sequence spaces. 86j:40004

Mohapatra, Ram Narayan See Chandra, Prem, 86f:40006

Mursaleen Absolute almost convergent sequences. 86a:40003

Orhan, C. On the summability field of $I-I$ methods of summation. (Turkish summary) 86m:40004

Matrix transformations on Cesàro difference sequence spaces. (Turkish summary) 86i:40003

Almost regularity of dual summability methods. (Turkish summary) 86i:40004

Östürk, E. On absolutely equivalent summability methods. 86m:40005

See also Başar, F., 86i:40002

Revenko, A. V. Embedding of cores by regular transformations. (Russian) 86c:40002

Spreng, Karl-Eugen Ordnungslimitierung, Cesàro-Verfahren und Fastkonvergenz. (English summary) [Order summability, Cesàro methods and almost convergence] 86b:40003

Stechkin, S. B. Convergence of a subsequence and summability of a sequence. (Russian. English summary) 86g:40003

Tomm, Ludwig A summability approximation theorem for the transforms of the geometric series. 86b:40004

Videnakli, V. S. Regular matrices of summation generated by linear positive operators. (Russian. Armenian summary) 86h:40004

Zaidi, S. M. H. On matrix transformations of some generalized sequence spaces. 86m:40006

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Dawson, David F. Sequences having certain nonabsolute variation properties. (Italian summary) 86d:40001

Golkhman, V. E. Fields of summability of regular matrices. (Russian) 86g:40004

Kuttner, B. (with Maddox, I. J.) Inequalities between functionals on bounded sequences. 86m:40012

Maddox, I. J. See Kuttner, B., 86m:40012

Meals, I. P. Fields of effectiveness of certain regular matrices. (Russian) 86g:40005

Meyer-König, W. (with Zeller, K.) Zusammensetzung von Wahrscheinlichkeitsverteilungen und Multiplikation von Limitierungsmatrizen. [Composition of probability distributions and multiplication of limitation matrices] 86j:60063

Miller, Harry I. Rates of convergence and topics in summability theory. (Serbo-Croatian summary) 86b:40001

Thorpe, B. (with Tomm, Ludwig) Universal approximation by regular weighted means. 86f:30002

Tomm, Ludwig See Thorpe, B., 86f:30002

Walsh, D. On partial sum Hankel matrices. 86d:47033

Zeller, K. See Meyer-König, W., 86j:60063

40C10 Integral methods

Mishra, Babban Prasad (with Singh, Dinesh) On a product summability method. II. 86h:40005

Singh, Dinesh See Mishra, Babban Prasad, 86h:40005

40C15 Function-theoretic methods (including power series methods and semicontinuous methods)

Bundschuh, Peter Zur Note von Lehmer über eine Konstante von Erdős-Turán. (English summary) [A note of Lehmer on a constant of Erdős-Turán] 86d:40003

Laslić, M. (with Pevac, L.) On convergence domains of function methods. 86j:40005

Pevac, L. See Laslić, M., 86j:40005

secondary classifications (40C15)

Arteca, Gustavo A. (with Fernández, Francisco M.; Castro, Eduardo A.) Summation of strongly divergent perturbation series. 86a:81012

Castro, Eduardo A. See Arteca, Gustavo A. et al., 86a:81012

De Sousa, Geraldo Soares (with Golightly, G. O.) A proof of Abel's continuity theorem. 86h:30002

Fernández, Francisco M. See Arteca, Gustavo A. et al., 86a:81012

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Lee, Peng Yee See Lim, Suat Khoh, 86j:40004

Lim, Suat Khoh (with Lee, Peng Yee) On matrix transformations between sequence spaces. 86j:40004

Stechkin, S. B. Convergence of a subsequence and summability of a sequence. (Russian. English summary) 86g:40003

40Dxx Direct theorems on summability

40D05 General theorems

secondary classifications (40D05)

Orhan, C. Matrix transformations on Cesàro difference sequence spaces. (Turkish summary) 86i:40003

40D09 Structure of summability fields

Boos, J. Singularitäten von Folgen permanenter Matrizen. (English summary) [Singularities of sequences of permanent matrices] 86j:40006

Rabets, E. V. Some structural questions of fields of convergence of R_n^d -regular matrix methods of summation of double sequences. (Russian) 86b:40005

secondary classifications (40D09)

Abel, Ulrich Asymptotische Approximation durch Dirichlet-Reihen mit Anwendungen auf verallgemeinerte Abelverfahren. [Asymptotic approximation by Dirichlet series with applications to generalized Abel methods] 86i:41023

Beekmann, Wolfgang (with Chang, Shao Chien) On the structure of summability fields. 86e:40009

Chang, Shao Chien See Beekmann, Wolfgang, 86e:40009

Spreng, Karl-Eugen Ordnungslimitierung, Cesàro-Verfahren und Fastkonvergenz. (English summary) [Order summability, Cesàro methods and almost convergence] 86b:40003

40D10 Tauberian constants and oscillation limits

secondary classifications (40D10)

Körle, H.-H. On Kronecker convergence conditions in Riesz summation. 86i:40007

40D15 Convergence factors and summability factors

Bor, Hüseyin On $|\bar{N}, p_n|_k$ summability factors of infinite series. (Turkish summary) 86j:40007

On the summability factors of infinite series. (Turkish summary) 86i:40005

Bosancuet, L. S. Convergence and summability factors in a sequence. II. 86e:40005

Mishra, K. N. (with Srivastava, R. S. L.) On $|\bar{N}, p_n|_k$ summability factors of infinite series. 86c:40003

Srivastava, R. S. L. See Mishra, K. N., 86c:40003

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Balci, Mustafa On absolute φ -summability factors. (Turkish summary) 86k:40003

Sheng, Shu Yun A note on two theorems of Bilodeau. (Chinese. English summary) 86a:40005

40D20 Summability and bounded fields of methods

Boas, J. A short proof of a theorem of G. M. Petersen. 86a:40004

Golkhman, V. E. Fields of summability of regular matrices. (Russian) 86g:40004

Masis, I. P. Fields of effectiveness of certain regular matrices. (Russian) 86g:40005

secondary classifications (40D20)

Boas, J. Singularitäten von Folgen permanenter Matrizen. (English summary) [Singularities of sequences of permanent matrices] 86j:40006

40D25 Inclusion and equivalence theorems

Bor, Hüseyin On two summability methods. 86d:40004

Borwein, D. (with Thorpe, B.) Conditions for inclusion between Nörlund summability methods. 86j:40008

Ishiguro, Kasuo (with Tietz, Hubert) Über Nörlund-Verfahren, die zu den Cesàro-Verfahren äquivalent sind. [On Nörlund methods that are equivalent to Cesàro methods] 86i:40006

Kishore, Nand (with Misra, U. K.) A note on the inclusion relation between Cesàro and matrix summabilities. 86h:40006

Misra, U. K. See Kishore, Nand, 86h:40006

Thorpe, B. See Borwein, D., 86j:40008

Tietz, Hubert See Ishiguro, Kasuo, 86i:40006

secondary classifications (40D25)

Abel, Ulrich Asymptotische Approximation durch Dirichlet-Reihen mit Anwendungen auf verallgemeinerte Abelverfahren. [Asymptotic approximation by Dirichlet series with applications to generalized Abel methods] 86i:41023

Dikshit, G. D. On summability $|R, \exp(w^{\delta}), \gamma|$ of Fourier series. 86j:42012

Hirokawa, Hiroshi A note on generalized harmonic-Cesàro summability. 86b:40008

Mishra, Babhan Prasad (with Singh, Dinesh) On a product summability method. II. 86h:40005

Rhoades, B. E. Some comparison theorems for absolute summability. 86f:40009

Singh, Dinesh See Mishra, Babhan Prasad, 86h:40005

40D99 None of the above, but in this section

Omey, Edward Asymptotic properties of convolution products of sequences. 86h:40007

40Exx Inversion theorems

secondary classifications (40Exx)

(Halász, Gábor) See Turán, Pál, 86b:11059

(Pinis, János) See Turán, Pál, 86b:11059

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Turán, Pál ★ On a new method of analysis and its applications. 86b:11059

40E05 Tauberian theorems, general

Agrawal, S. N. See Varma, Sushama K., 86d:40005

Alpár, L. Tauberian theorems for power series of two variables. 86j:40009

Kwee, B. On the (J, p_n, q_n) method of summation. 86g:40006

Mikhailin, G. A. Generalization of a theorem of Hardy and Littlewood. (Russian) 86m:40007

Rangachari, M. S. Tauberian oscillation theorems for the summability methods of the Hardy family. 86g:40007

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Sörms, T. Weakening of Tauberian conditions into single-type conditions. (Russian. German summary) 86e:40006

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Varma, Sushama K. (with Agrawal, S. N.) On second Tauberian theorem for Cesàro summability. 86d:40005

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(with Tenenbaum, G.) Riesz and Valiron means and fractional moments. 86m:40010

Fainleib, A. S. Tauberian inequalities and sums of multiplicative functions. 86h:11075

Geluk, J. L. Abelian and Tauberian theorems for \mathcal{O} -regularly varying functions. 86d:44001

de Haan, L. (with Stadtmüller, Ulrich) Dominated variation and related concepts and Tauberian theorems for Laplace transforms. 86k:44002

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Stadtmüller, Ulrich See de Haan, L., 86k:44002

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40E10 Growth estimates

Vuković, Mirjana A convexity theorem for G_k^λ summability. (Serbo-Croatian summary) 86b:40007

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Embrechts, Paul (with Omey, Edward) Functions of power series. 86d:30005

Ilyasov, M. I. (with Samandarov, E. G.) Explicit estimates in a Tauberian theorem. (Russian. Tajiki summary) 86f:30001

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40E99 None of the above, but in this section

Bingham, Nicholas H. On Valiron and circle convergence. 86g:40008

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Martić, Branislav Note on some Mercerian theorem. 86j:40003

Tanović-Miller, N. See Avdiapahić, M., 86a:47037

40F05 Absolute and strong summability

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Mohanty, Pearl Charan See Sukla, Indulata, 86m:40009

Östürk, E. On strongly regular dual summability methods. (Turkish summary) 86i:40006

Rhoades, B. E. Some comparison theorems for absolute summability. 86f:40009

Sukla, Indulata (with Mohanty, Pearl Charan) Absolute Riesz summability factors. 86m:40009

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40Gxx Special methods of summability

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Bingham, Nicholas H. (with Maejima, Makoto) Summability methods and almost sure convergence. 86f:60037

Embrechts, Paul (with Maejima, Makoto) The central limit theorem for summability methods of i.i.d. random variables. 86f:60038

Maejima, Makoto See Bingham, Nicholas H., 86f:60037 and Embrechts, Paul, 86f:60038

40G05 Cesàro, Euler, Nörlund and Hausdorff methods

- Bingham, Nicholas H. (with Tenenbaum, G.) Riesz and Valiron means and fractional moments. **86m:40010**
- Das, Gokulananda (with Mohapatra, P. C.) On a generalised harmonic-Cesàro method of summation and its application to Fourier series. **86j:40011**
- Hirokawa, Hiroshi A note on generalized harmonic-Cesàro summability. **86b:40008**
- Kogan, D. A. On the summation of integrals. (Russian) **86e:40007**
- Mohapatra, P. C. See Das, Gokulananda, **86j:40011**
- Orhan, C. Cesàro difference sequence spaces and related matrix transformations. **86b:40010**
- Pandey, Diwakar Corrigendum to: "On the absolute convergence and absolute summability of ultraspherical series" [Indian J. Math. **19** (1977), no. 2, 63-72; MR **83a:40010**]. **86e:40008**
- Sheng, Shu Yun A note on two theorems of Bilodeau. (Chinese. English summary) **86e:40005**
- Tenenbaum, G. See Bingham, Nicholas H., **86m:40010**
- Tripathy, N. On the absolute Hausdorff summability factors of infinite series. (Not in MR)

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- Agrawal, S. N. See Varma, Sushama K., **86d:40005**
- Bagar, F. (with Öztürk, E.) On a generalization of the dual summability methods. (Turkish summary) **86i:40002**
- Bor, Hüseyin On two summability methods. **86d:40004**
- Borwein, D. (with Thorpe, B.) Conditions for inclusion between Nörlund summability methods. **86j:40008**
- Boeanquet, L. S. Convergence and summability factors in a sequence. II. **86e:40005**
- Cao, Jia Ding Generalized integral logarithms and two examples of summation of Fourier series. (Chinese. English summary) **86c:42004**
- Chandra, Prem (with Mohapatra, Ram Narayan) Inequalities which yield inclusions among sequence spaces containing l_p . **86f:40006**
- Ishiguro, Kazuo (with Tietz, Hubert) Über Nörlund-Verfahren, die zu den Cesàro-Verfahren äquivalent sind. [On Nörlund methods that are equivalent to Cesàro methods] **86i:40006**
- Kuttner, B. Strong Cesàro and Hölder summability with index less than one. **86h:40009**
- Lee, Peng Yee Cesàro sequence spaces. **86c:40005**
- Maric, Vojislav (with Tomić, Miodrag) On a method for inverse theorems for $(C, 1)$ and gap $(C, 1)$ summability. **86f:40007**
- Mohapatra, Ram Narayan See Chandra, Prem, **86f:40006**
- Móricz, F. On the restricted Cesàro summability of multiple orthogonal series. **86e:40004**
- Omev, Edward Asymptotic properties of convolution products of sequences. **86h:40007**
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- Öztürk, E. See Bagar, F., **86i:40002**
- Rhoades, B. E. Generalized harmonic summability of a sequence of Fourier coefficients. **86c:42015**
- Stechkin, S. B. Convergence of a subsequence and summability of a sequence. (Russian. English summary) **86g:40003**
- Thorpe, B. See Borwein, D., **86j:40008**
- Tietz, Hubert See Ishiguro, Kazuo, **86i:40006**
- Tomić, Miodrag See Maric, Vojislav, **86f:40007**
- Ustinov, F. Lebesgue constants for double Hausdorff means. **86h:42027**
- Varma, Sushama K. (with Agrawal, S. N.) On second Tauberian theorem for Cesàro summability. **86d:40005**

40G10 Abel, Borel and power series methods

- Faulstich, K. A family of nonregular Riesz methods and its application to power series. **86f:40010**
- Kuttner, B. (with Mishra, Babban Prasad) Strong summability on a scale of Abel type methods. II. **86g:40009**
- Lototskii, V. The kernel of Borel means for a class of unbounded sequences. (Russian. English summary) **86a:40006**
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- Constantinescu, F. (with Klöckner, K.; Scharffenberger, U.) Borel summability in the disorder parameter of the averaged Green's function for Gaussian disorder. **86j:82050**
- De Souza, Geraldo Soares (with Golightly, G. O.) A proof of Abel's continuity theorem. **86h:30002**
- Golightly, G. O. See De Souza, Geraldo Soares, **86h:30002**
- Graffi, S. (with Grecchi, V.) Borel summability of the unequal double well. **86d:81019**
- Grecchi, V. (with Maioli, M.) Borel summability beyond the factorial growth. (French summary) **86a:81014**
- (with Maioli, M.) Generalized logarithmic Borel summability. **86d:81020**
- See also Graffi, S., **86d:81019**
- Klöckner, K. See Constantinescu, F. et al., **86j:82050**
- Maioli, M. Borel-Le Roy summability of the high temperature expansion for classical continuous systems. **86j:82008**
- See also Grecchi, V., **86a:81014** and **86d:81020**
- Rivaseau, V. Construction and Borel summability of planar 4-dimensional Euclidean field theory. **86a:81046**
- Scharffenberger, U. See Constantinescu, F. et al., **86j:82050**

40G99 None of the above, but in this section

- Das, Gokulananda (with Panda, K. C.; Sahoo, S.) On two new methods of summability. **86g:40010**
- Dzhafarov, Arif S. New analogues of the Bernstein-Rogosinski method of summation. (Russian. English and Azerbaijani summaries) **86c:40004**
- Jakimovskii, A. (with Russell, D. C.) Spline interpolation of data of power growth applied to discrete and continuous Riesz means. **86m:40011**
- Kokhanovskii, A. P. The relation of Abel's method to some subclass of methods of summation of Voronoï series. (Russian) **86h:40011**
- Panda, K. C. See Das, Gokulananda et al., **86g:40010**
- Russell, D. C. See Jakimovskii, A., **86m:40011**
- Sahoo, S. See Das, Gokulananda et al., **86g:40010**

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- Bochar, B. K. (with Jadiya, B. L.) On harmonic summability of Jacobi series. **86d:33014**
- Bingham, Nicholas H. On Valiron and circle convergence. **86g:40008**
- Das, Gokulananda (with Kuttner, B.; Nanda, Sudarsan) Some sequence spaces and absolute almost convergence. **86i:46012**
- Dikahit, G. D. On the absolute Riesz summability factors of infinite series. III. **86m:40008**
- Górowski, Jan (with Wachnicki, Eugeniusz) On some method of summability of the Fourier series. (Polish summary) **86m:42010**
- Jadiya, B. L. See Bochar, B. K., **86d:33014**
- Kathal, P. D. See Shukla, H. L., **86h:42013**
- Kuttner, B. (with Sukla, Indulata) On $(D, h(n))$ summability methods. **86e:11093**
- See also Das, Gokulananda et al., **86i:46012**
- Nanda, Sudarsan See Das, Gokulananda et al., **86i:46012**
- Qureshi, K. On the degree of approximation of functions belonging to the class $Lip(\alpha, p)$ by almost harmonic means. **86g:42007**
- Shukla, H. L. (with Kathal, P. D.) Taylor-Cesàro product summability of the derived Fourier series. **86h:42013**
- Sukla, Indulata See Kuttner, B., **86e:11093**
- Wachnicki, Eugeniusz See Górowski, Jan, **86m:42010**

40H05 Functional analytic methods in summability

- Beekmann, Wolfgang (with Chang, Shao Chien) On the structure of summability fields. **86e:40009**
- Chang, Shao Chien See Beekmann, Wolfgang, **86e:40009**
- Kuttner, B. (with Maddox, I. J.) Inequalities between functionals on bounded sequences. **86m:40012**
- Lee, Peng Yee Cesàro sequence spaces. **86c:40005**
- Maddox, I. J. See Kuttner, B., **86m:40012**
- Megrabyan, R. M. The set of sums of function series in the spaces L_Φ . (Russian) **86m:40013**
- Savaş, Ekrem Summability in Fréchet spaces. (Turkish. English summary) **86c:40006**

secondary classifications (40H05)

- Baumbach, G. Lorentz-Folgenräume mit logarithmischem Gewicht. (English and Russian summaries) [Lorentz sequence spaces with logarithmic weight] **86j:46010**
- Maddox, I. J. Absolutely conservative operator submatrices. **86f:40011**
- Snyder, A. K. Universal families for conull FK spaces. **86a:46009**
- A permanence theorem for sums of sequence spaces. **86f:46006**
- Swarts, Charles The Schur and Hahn theorems for operator matrices. **86m:47041**
- Sy, Polly Wee A-associate spaces and matrix transformations. **86j:46011**

40J05 Summability in abstract structures [See also 43A55, 46A35, 46B15.]

- Kolk, E. Summability fields with the Banach-Saks property. (Russian. English summary) **86b:40009**
- Leiger, T. Positive generalized summability methods. (Russian. German summary) **86d:40006**
- Maddox, I. J. Absolutely conservative operator submatrices. **86f:40011**
- Terpe, F. A new application of topology in summability theory. (Russian) **86a:40007**

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- Émilion, R. Mean-bounded operators and mean ergodic theorems. **86h:47009**
- Rodés Usán, Alvaro Angel Summability of sequences obtained by transforming a given sequence by unitary operators. (Spanish. English summary) (See **86g:00012b**)
- Savaş, Ekrem Summability in Fréchet spaces. (Turkish. English summary) **86c:40006**

41-XX APPROXIMATIONS AND EXPANSIONS (For all approximation theory in the complex domain, see 30E05 and 30E10; for all trigonometric approximation and interpolation, see 42A10 and 42A15; for numerical approximation, see 65Dxx.)

secondary classifications (41-XX)

- Tan, Fu Qi A simplified method for the construction of the cubic spline function. (Not in MR)

41-01 Elementary exposition; textbooks

Rapa, I. Convergent sequences of linear functionals. (Romanian. English summary) 86b:41001

41-02 Advanced exposition (research surveys, monographs, etc.)

Aparicio Bernardo, Emiliano Some results in the problem of Diophantine approximations of functions by polynomials. (Russian) 86d:41001

(Dieudonné, Jean) See Zamanaky, Marc, 86g:41002

Krants, Steven G. Lipschitz spaces, smoothness of functions, and approximation theory. 86g:41001

Pinkus, A. \star n -widths in approximation theory. 86k:41001

Zamanaky, Marc \star Analyse harmonique et approximation. (French) [Harmonic analysis and approximation] 86g:41002

secondary classifications (41-02)

Babenko, K. I. Some problems of the theory of approximations and numerical analysis. (Russian) 86f:65039

Fournier, John J. F. (with Stewart, James D.) Amalgams of L^p and l^q . 86f:46027

Stewart, James D. See Fournier, John J. F., 86f:46027

41-03 Historical (must also be assigned at least one classification number from Section 01)

secondary classifications (41-03)

Abilov, V. A. I. V. Tsenov's work in constructive function theory. (Russian) 86g:41040

Dayadyk, V. K. Studies in approximation theory and the geometric theory of functions at the Institute of Mathematics of the Academy of Sciences of the Ukrainian SSR over 50 years. (Russian) 86i:01039

Higgins, J. R. Five short stories about the cardinal series. 86k:42045

(Lusin, N. N.) See Ulyanov, P. L., 86k:01040

Todd, John Applications of transformation theory: a legacy from Zolotarev (1847-1878). 86g:41044

Ulyanov, P. L. The works of N. N. Lusin in metric function theory. (Russian) 86k:01040

(Zolotarev, E. I.) See Todd, John, 86g:41044

41-06 Proceedings, conferences, etc.

Dayadyk, V. K. See The theory of approximation of functions and its applications. 86d:41003

(Graves-Morris, P. R.) See Rational approximation and interpolation. 86d:41002

(Saff, E. B.) See Rational approximation and interpolation. 86d:41002

(Varga, R. S.) See Rational approximation and interpolation. 86d:41002

Conference:

Rational approximation and interpolation \star Rational approximation and interpolation. 86d:41002

Rational approximation and interpolation \star Rational approximation and interpolation. 86d:41002

Tampa, Fla. \star Rational approximation and interpolation. 86d:41002

The theory of approximation of functions and its applications \star Теория приближения функций и ее приложения. (Russian) [The theory of approximation of functions and its applications] 86d:41003

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(Milovanović, G. V.) See Numerical methods and approximation theory. 86g:65009

(Nikol'skii, S. M.) See Studies in the theory of functions of several real variables and the approximation of functions. 86k:46002

(Sobolev, S. L.) See Studies in the theory of functions of several real variables and the approximation of functions. 86k:46002

Birthday:

Nikol'skii, S. M. \star Studies in the theory of functions of several real variables and the approximation of functions. (Russian) 86k:46002

Conference:

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NM \star Numerical methods and approximation theory. 86g:65009

Numerical methods and approximation theory \star Numerical methods and approximation theory. 86g:65009

Studies in the theory of functions of several real variables and the approximation of functions \star Studies in the theory of functions of several real variables and the approximation of functions. (Russian) 86k:46002

41A05 Interpolation [See also 42A15 and 65D05.]

Berg, Lothar Interpolation by special exponential polynomials. (German and Russian summaries) 86m:41001

Brutman, L. A note on polynomial interpolation at the Chebyshev extrema nodes. 86a:41001

Chen, Chuan Miao Some estimates for interpolation approximations and their applications. (Chinese. English summary) 86c:41001

Cui, Ming Gen (with Deng, Zhong Xing) Some problems on the degree of approximation of Hermite-Fejér interpolation operators. (Chinese. English summary) 86i:41001

Cuyt, Annie A. M. (with Verdonk, Brigitte M.) Multivariate rational interpolation. (German summary) 86g:41003

Demidovich, V. B. A generalization of the classical interpolation formula: simple interpolation. (Russian. Kazakh summary) 86b:41002

Demko, Stephen G. On the existence of interpolating projections onto spline spaces. 86e:41001

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Dunham, C. B. Chebyshev approximation with weights large on nodes. 86h:41001

Fabrykowski, J. (with Sharma, Ambikeshwar; Zassenhaus, H.) Some Birkhoff interpolation problems on the roots of unity. 86b:41003

Freeden, W. Spherical spline interpolation—basic theory and computational aspects. 86c:41002

Gasca, Mariano (with López Carmona, Antonio) Interpolation by recurrence: a general formula. (Spanish. English summary) (See 86g:00012c)

(with Ramírez, V.) Interpolation systems in R^2 . (Spanish. English summary) (See 86g:00012c)

Goodman, T. N. T. (with Lee, Seng Luan) B -splines on the circle and trigonometric B -splines. 86i:41002

Hakopian, Hakop Integral remainder formula of the tensor product interpolation. (Russian summary) 86g:41004

Multivariate interpolation II of Lagrange and Hermite type. 86m:41002

He, Jia Xing See Zhu, An Min et al., 86c:41003

He, Tian Xiao (with Wang, Ren Hong) The asymptotic estimate of the Hermite-Fejér process on the Chebyshev nodes. II. (Chinese. English summary) 86j:41001

Hermann, Thomas On the convergence of Hermite-Fejér interpolation. 86h:41002

Huang, Da Ren (with Wang, Jian Zhong) Cubic L -spline interpolation with a doubly infinite knot sequence. (Chinese. English summary) 86e:41002

Jakimovski, A. (with Russell, D. C.) On classes of spline functions, and interpolation by functions with derivatives in preassigned spaces. 86g:41005

Jonsson, Alf The trace of the Zygmund class $\Lambda_k(R)$ to closed sets and interpolating polynomials. 86m:41003

Jóó, I. Some investigations connected with the works of L. Fejér and F. Riesz. 86b:41004

Karenin, L. Ya. Interpolation on saturated closed sets on the unit circle. (Russian) 86i:41003

Kastrits, O. A. Construction of interpolation formulas for a matrix function. (Russian) 86f:41001

Kel'son, A. A. Interpolation of continuous functions of bounded p -variation. (Russian) 86b:41005

Kilgore, Theodore A note on functions with interlacing roots. 86b:41006

Kuprikov, A. V. A multivalued Lagrange expansion expressed in terms of the coefficients of the initial series. (Russian) 86j:41002

Labédski, Adam (with Wajda, Wojciech) Sard kernel theorems and interpolation remainder theory of perpendicular parallelepipeds. 86k:41002

Lee, Seng Luan See Goodman, T. N. T., 86i:41002

Locher, F. On Hermite-Fejér interpolation at Jacobi zeros. 86m:41004

López Carmona, Antonio See Gasca, Mariano, (86g:00012c)

Lorents, G. G. Theorem of Budan-Fourier and Birkhoff interpolation. 86k:41003

(with Lorents, Rudolph A.) Multivariate interpolation. 86j:41003

Lorents, Rudolph A. See Lorents, G. G., 86j:41003

Lu, Jian Ke On complex quartic interpolating splines with higher deficiency. 86b:41007

Mitreă, Alexandru-Ioan A result concerning Lagrange interpolation processes. (Romanian. English summary) 86e:41003

On the divergence of Lagrange interpolation processes. 86k:41004

Neval, Paul Solution of Turán's problem on divergence of Lagrange interpolation in L^p with $p > 2$. 86d:41004

(with Vértési, P.) Mean convergence of Hermite-Fejér interpolation. 86b:41004

Prasad, Jagdish (with Varma, A. K.) Degree of approximation of quasi-Hermite-Fejér interpolation based on Jacobi abscissas $p_n^{(\alpha, \alpha)}(x)$. 86j:41006

Ramírez, V. See Gasca, Mariano, (86g:00012c)

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Sharma, Ambikeshwar Birkhoff interpolation on the roots of unity. 86g:41007

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Srivastava, K. B. On weighted L^p -convergence of certain Lagrange interpolation. 86k:41005

Sun, Xie Hua The orders of approximation of some interpolation processes. (Chinese. English summary) 86i:41003

The degrees of approximation by two interpolation processes of Bernstein type. (Chinese) 86e:41004

Sündermann, B. Lebesgue-Konstanten bei der Interpolation durch Polynome in mehreren Veränderlichen. [Lebesgue constants in the interpolation by polynomials in several variables] (Not in MR)

Szabados, J. Weighted norm estimates for the Hermite-Fejér interpolation based on the Laguerre abscissas. 86i:41004

Tarasov, I. S. A generalization of an interpolation algebraic polynomial to the case of several variables. (Russian) 86e:41005

Vadnal, Alojz Interpolations. (Slovenian. English summary) 86b:41008

Varma, A. K. See Prasad, Jagdish, 86j:41006

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Vértési, P. Convergence criteria for Hermite-Fejér interpolation based on Jacobi abscissas. 86e:41006

Two problems of P. Turán. 86k:41006

On discrete linear operators. 86g:41008

Divergence of Lagrange interpolation on a set of second category. 86a:41002

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Wei, Jia Ning See Zhu, An Min et al., 86c:41003

Xu, Yuan Existence and uniqueness of polynomial interpolation splines. (Chinese. English summary) (Not in MR)

Yadav, S. P. A note on extended Hermite-Fejér interpolation. 86h:41005

Zassenhaus, H. See Fabrykowski, J. et al., 86b:41003

Zhou, Xin Long On a theorem of Prasad and Varma. (Chinese. English summary) 86g:41009

Zhu, An Min (with Wei, Jia Ning; He, Jia Xing) The convergence order of Hermite-Fejér interpolation operators with zeros of the Legendre polynomial. (Chinese. English summary) **86c:41003**

secondary classifications (41A05)

Abraham, Vimala On the existence and uniqueness of M -splines. **86d:41007**

Alessandrini, Giovanni An extrapolation problem for harmonic functions. (Italian summary) **86a:31001**

Alfeld, Peter Multivariate perpendicular interpolation. **86d:65021**

Apprato, Dominique Étude de la convergence du produit tensoriel de fonctions spline à une variable satisfaisant à des conditions d'interpolation de Lagrange. (English summary) [Study of the convergence of the tensor product of spline functions of one variable satisfying Lagrange interpolation conditions] **86i:41008**

Bărsan, M. See Vladislav, T., **86j:65015**

Bloom, Thomas On the convergence of interpolating polynomials for entire functions. **86f:32019**

Borwein, Peter B. Rational interpolation to e^x . II. **86i:41012**

Bresinaki, Claude Recursive interpolation, extrapolation and projection. **86a:65010**

Buch, J. R. Osculatory interpolation in \mathbb{R}^n . **86f:65034**

Cavaretta, A. S., Jr. (with Dikshit, H. P.; Sharma, Ambikeshwar) An extension of a theorem of Walsh. **86b:30056**

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- Shoji, F. F. (with Abe, Ken-ichi; Takeda, Hiroshi) On the simplification of large linear systems using Padé-type approximations and Cauer continued fractions. **86f:93018**
- Siemasko, Wojciech Construction of an ε -algorithm for double sequences. (Polish) **86f:65020**
- Song, An Lan See Xiong, Guang Leng (Not in MR)
- Styer, Daniel F. (with Fisher, Michael Ellis) Partial differential approximants and the elucidation of multisingularities. **86m:41014**
- Suetin, S. P. An inverse problem for the m th row of a Padé table. (Russian) **86c:30007**
- Takeda, Hiroshi See Shoji, F. F. et al., **86f:93018**
- Thomas, Ruth Margaret See Gladwell, I., **86f:65136**
- Vainberg, V. M. (with Popov, V. S.) Summation of divergent series of perturbation theory for screened Coulomb potentials. (Russian) **86j:81028**
- Vavilov, V. V. See López Lagomasino, G., **86j:30008**
- Williamson, R. A. Padé approximations in the numerical solution of hyperbolic differential equations. **86a:65096**
- Wimp, Jet Some explicit Padé approximants for the function Φ/Φ and a related quadrature formula involving Bessel functions. **86k:33016**
- Xiong, Guang Leng (with Song, An Lan) System reduction—the calculation and improvement of the biased continued fraction approximation method. (Chinese. English summary) (Not in MR)
- 41A25 Rate of convergence, degree of approximation**
- Anastassiou, G. A. Miscellaneous sharp inequalities and Korovkin-type convergence theorems involving sequences of probability measures. **86k:41021**
- A "K-attainable" inequality related to the convergence of positive linear operators. **86m:41015**
- Boyd, John Phillip Asymptotic coefficients of Hermite function series. **86c:41012**
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- Jiménez Poso, M. A. On the convergence of a sequence of operators or functionals on spaces of bounded functions. **86m:41017**
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- Lakhani, K. B. Order of approximation by Nörlund operators of Laguerre expansions. **86d:41024**
- Maury, E. A class of generalized Szász operators and their convergence properties. **86k:41022**
- Mhaaskar, H. N. See Freud, G., **86m:41018**
- Prasad, Govind See Singh, Suresh Prasad et al., **86e:41032** and **86h:41017**
- Saff, E. B. Incomplete and orthogonal polynomials. **86b:41029**
- Singh, Suresh Prasad (with Varshney, O. P.; Prasad, Govind) On the degree of L_1 -approximation by modified Bernstein polynomials. **86h:41017**
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- Sun, Xie Hua The orders of some Hermite-Fejér type operators. (Chinese. English summary) **86b:41030**
- Totik, V. Some properties of a new kind of modulus of smoothness. (German and Russian summaries) **86b:41031**
- Varshney, O. P. See Singh, Suresh Prasad et al., **86e:41032** and **86h:41017**
- Wood, B. L_p -approximation by linear combination of integral Bernstein-type operators. **86m:41020**
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- secondary classifications (41A25)
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- Barrar, R. B. (with Loeb, H. L.) Some remarks on the exact controlled approximation order of bivariate splines on a diagonal mesh. **86k:41012**
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- Brass, Dietrich On rational approximation of the exponential and the square root function. **86g:41025**
- Bugrov, Ya. S. Linear means of Fourier series and integrals and the rate of their convergence. (Russian) **86b:42011**
- Burchard, H. G. (with Höllig, K.) N -width and entropy of H_p -classes in $L_q(-1, 1)$. **86i:41021**
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- Butser, Paul L. (with Dickmeis, W.) On the sharpness of nonoptimal approximation for semigroup operators. **86m:47061**
- Chui, Charles Kam-tai (with Shen, Xie Chang) Degree of rational approximation in digital filter realisation. **86f:93099**
- Cox, Dennis D. Multivariate smoothing spline functions. **86b:41018**
- Dickmeis, W. See Butser, Paul L., **86m:47061**
- Doronin, V. G. (with Ligon, A. A.) Optimal choice of nodes in one-sided approximation of functions by splines. (Russian) **86e:41014**
- Eneduanaya, S. A. N. On the Lebesgue function on infinite interval. I. **86e:41019**
- Gonaka, Heinz H. See Hinneemann, Eva, **86e:41008**
- Hausmann, Werner (with Jetter, K.; Steinhaus, Bernd) Degree of best approximation by trigonometric blending functions. **86i:42003**
- He, Jia Xing See Zhu, An Min et al., **86c:41003**
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- Isleris, Arish Order stars, approximations and finite differences. I. The general theory of order stars. **86h:30070**
- Ivanov, Kamen G. Direct and converse theorems for the best algebraic approximation in $C[-1, 1]$ and $L_p[-1, 1]$. **86i:41006**
- Jetter, K. See Hausmann, Werner et al., **86i:42003**
- Kravchuk, V. R. Effective approximation of elementary functions by rational polynomials of order $(n, 1)$. (Russian) **86h:41013**
- Leviatan, D. Degree of copositive approximation. **86d:41028**
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- O'Farrell, A. G. The Legendre expansion of a smooth function. **86k:42040**
- Patak, Ashutosh Approximation of a function by its Fourier integral. **86b:42009**
- Petukhov, A. P. Approximation of discontinuous functions in the Hausdorff metric. (Russian) **86m:42007**
- Potra, F.-A. (with Pták, Vlastimil) ★Nondiscrete induction and iterative processes. **86i:65003**
- Pták, Vlastimil See Potra, F.-A., **86i:65003**
- Raphael, Louise A. A Jackson-type theorem for averages of splines bounding a class of differentiable functions. **86d:41014**
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- Shen, Xie Chang See Chui, Charles Kam-tai, **86f:93099**
- Sinclair, Annette Strong Carleman and strong uniform approximation. **86g:30050**
- Singh, Suresh Prasad Approximations and positive linear operators. (Arabic summary) **86g:41036**
- Steinhaus, Bernd See Hausmann, Werner et al., **86i:42003**
- Still, Georg On the approximation of Müntz series by Müntz polynomials. **86m:41025**
- Sun, Xie Hua The degrees of approximation by two interpolation processes of Bernstein type. (Chinese) **86e:41004**
- Swetits, J. (with Wood, B.) Degree of L_p approximation with modified Baskakov operators. **86m:41027**
- Szabados, J. Weighted norm estimates for the Hermite-Fejér interpolation based on the Laguerre abscissas. **86i:41004**
- Taberski, Roman Trigonometric approximation in the norms and seminorms. **86j:42004**
- Totik, V. Uniform approximation by positive operators on infinite intervals. (Russian summary) **86e:41043**
- Wei, Jia Ning See Zhu, An Min et al., **86c:41003**
- Wood, B. See Swetits, J., **86m:41027**
- Xie, Ting Fan On two problems of Leindler. **86a:42005**
- Zhou, Xin Long On a theorem of Prasad and Varma. (Chinese. English summary) **86g:41009**
- Zhu, An Min (with Wei, Jia Ning; He, Jia Xing) The convergence order of Hermite-Fejér interpolation operators with zeros of the Legendre polynomial. (Chinese. English summary) **86c:41003**
- 41A27 Inverse theorems
- Ivanov, Kamen G. On the dependence of the differential properties of a function on its best algebraic approximation. **86h:41018**
- Totik, V. $L^p(p > 1)$ -approximation by Kantorovich polynomials. **86c:41013**
- Uniform approximation by Bernstein-type operators. **86c:41014**
- An interpolation theorem and its applications to positive operators. **86g:41033**
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- Ivanov, Kamen G. Direct and converse theorems for the best algebraic approximation in $C[-1, 1]$ and $L_p[-1, 1]$. **86i:41006**
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- Sevast'yanov, E. A. Estimation of the smallness of the set of points of nondifferentiability of functions depending on the rate of their rational approximation. (Russian) **86i:41013**
- Still, Georg On the approximation of Müntz series by Müntz polynomials. **86m:41025**
- Xie, Ting Fan On the smoothness of functions. (Chinese) **86k:26003**
- 41A28 Simultaneous approximation
- de Bruin, Marcel G. Some explicit formulae in simultaneous Padé approximation. **86e:41033**
- Chen, Fu Sun See Jiang, Ming He et al., **86f:41006**
- Chen, Jing Xian See Jiang, Ming He et al., **86f:41006**
- Govindarajulu, P. On upper semicontinuity of simultaneous operators. **86e:41034**
- Jiang, Ming He (with Xu, Kang Kang; Chen, Jing Xian; Chen, Fu Sun; Zhang, Xin Bao; Tang, De Pei; Shi, Ying) The characteristics of best simultaneous approximation in a normed linear space. (Chinese. English summary) **86f:41006**
- Khaleelulla, S. M. See Sahab, Salem A., **86m:41021**
- Lorents, Rudolph A. Simultaneous approximation and Birkhoff interpolation. II. The periodic case. **86j:41018**
- Frolla, João B. Best simultaneous approximation. **86d:41025**
- Sahab, Salem A. (with Khaleelulla, S. M.) Best simultaneous approximation in L_p norm and L_p quasinorm. (Arabic summary) **86m:41021**
- Shi, Ying See Jiang, Ming He et al., **86f:41006**
- Tang, De Pei See Jiang, Ming He et al., **86f:41006**
- Xu, Kang Kang See Jiang, Ming He et al., **86f:41006**
- Zhang, Xin Bao See Jiang, Ming He et al., **86f:41006**
- secondary classifications (41A28)
- Bahadur, Lal (with Soni, Deepak Chand) Best simultaneous approximation in inner product spaces and normed spaces. **86m:41037**
- Godini, G. A framework for best simultaneous approximation: normed almost linear spaces. **86h:41035**
- Levin, A. L. (with Lubinsky, D. S.) Simultaneous rational approximation of a function and its derivatives in the complex plane. **86k:30047**
- Lubinsky, D. S. See Levin, A. L., **86k:30047**
- Soni, Deepak Chand See Bahadur, Lal, **86m:41037**
- Sorich, N. N. Simultaneous approximation of functions and their derivatives by Fourier sums on the classes $W_p^r(\mathbb{T})$. (Russian) **86e:42006**
- (with Stepanets, A. I.) Simultaneous approximation of periodic functions and their derivatives. (Russian) **86j:42002**
- Joint approximation of periodic functions and their derivatives by Fejér sums. (Russian) **86j:42003b**
- Stepanets, A. I. See Sorich, N. N., **86j:42002**
- 41A29 Approximation with constraints
- Dryanov, Dimităr P. One-sided approximation with entire functions of exponential type. **86k:41023**
- Dunham, C. B. (with Zhu, Chang Zhong) Discretization of varisolvant approximation with weights large on nodes. **86g:41034**
- (with Zhu, Chang Zhong) A limit theorem of discretization with weights large on nodes. **86m:41022**
- Huotari, Robert (with Legg, David) Best monotone approximation in $L_1[0, 1]$. **86h:41019**
- Legg, David See Huotari, Robert, **86h:41019**
- Leviatan, D. Degree of copositive approximation. **86d:41028**
- Mhaaskar, H. N. (with Saff, E. B.) Polynomials with Laguerre weights in L^p . **86h:41020**
- Micchelli, Charles A. (with Smith, P. W.; Swetits, J.; Ward, J. D.) Constrained L_p approximation. **86a:41022**

- Milovanović, G. V. (with Wrigge, Staffan) On the least squares approximation with constraints. (Serbo-Croatian summary) **86m:41023**
 Saff, E. B. See Mhaskar, H. N., **86h:41020**
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 Swettis, J. See Micchelli, Charles A. et al., **86a:41022**
 Ward, J. D. See Micchelli, Charles A. et al., **86a:41022**
 Wrigge, Staffan See Milovanović, G. V., **86m:41023**
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- Anastassiou, G. A. (with Shisha, O.) Monotone approximation with linear differential operators. **86m:41026**
 Shi, Ying Guang Constrained rational approximation. **86e:41025**
 Shisha, O. See Anastassiou, G. A., **86m:41026**

41A30 Approximation by other special function classes

- Babaev, M.-B. A. Extremal properties and two-sided estimates in approximation by sums of functions of a smaller number of variables. (Russian) **86h:41021**
 Gaahkov, S. B. Complexity of approximate realization of certain classes of differentiable functions of one variable by formulas in certain continuous bases. (Russian) **86h:41022**
 Kudryavtsev, N. L. Approximation of functions by entire functions of exponential type and embedding theorems in a mixed norm. (Russian) **86k:41024**
 Labunets, L. N. On the question of approximating functions that are continuous on a segment by truncated de la Vallée-Poussin sums. (Russian) **86e:41035**
 Lizorkin, P. I. See Nikol'skii, S. M., **86e:41036**
 Nikol'skii, S. M. (with Lizorkin, P. I.) Approximation by spherical polynomials. (Russian) **86e:41036**
 Petković, Miodrag S. On a modification of Prony's method. (Serbo-Croatian summary) **86m:41024**
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- Abel, Ulrich Asymptotische Approximation durch Dirichlet-Reihen mit Anwendungen auf verallgemeinerte Abelverfahren. [Asymptotic approximation by Dirichlet series with applications to generalized Abel methods] **86i:41023**
 Ardissoni, L. (with Di Piazza, L.) On L^p -differentiability. (Italian) **86g:26014**
 Beyer, K. Approximation durch Lösungen elliptischer Randwertprobleme. [Approximation by solutions of elliptic boundary value problems] **86m:35051b**
 Bushev, D. N. Asymptotically best approximation of classes of differentiable functions by linear positive operators. (Russian) **86k:42002**
 Demidovich, V. B. A generalization of the classical interpolation formula: simple interpolation. (Russian. Kazakh summary) **86b:41002**
 Di Piazza, L. See Ardissoni, L., **86g:26014**
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 Gocheva, S. A discrete approximation of the function e^{-x^2} . (Russian. English summary) (Not in MR)
 Korevaar, J. Müntz-type theorems for arcs and for \mathbb{R}^n . **86f:30038**
 Melkman, Avraham A. n -widths and optimal interpolation of time- and band-limited functions. II. **86h:41026**
 Phillips, G. M. See Foster, D. M. E., **86h:40001**
 Shoaif, William D. Tchebycheff approximation of continuous functions by harmonic polynomials on conic sections. **86i:41022**
 Sonnevend, Gy. Sequential algorithms of optimal order global error for the uniform recovery of functions with monotone $(r-1)$ derivatives. (Russian summary) **86h:65022**
 Suetin, P. K. ★ Ряды по многочленам Фабера. (Russian) [Series of Faber polynomials] **86f:30004**
 Totik, V. On the approximation of holomorphic functions in the unit ball of \mathbb{C}^n . **86a:32035**
 Ubhaya, Vasant A. $O(n)$ algorithms for discrete n -point approximation by quasiconvex functions. **86g:65039**
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41A35 Approximation by operators (in particular, by integral operators)

- Anisau, Valeriu A method of generating Kantorovich-type operators. **86i:41018**
 Berman, D. L. Solution of an extremal problem of the theory of operators. (Russian) **86e:41038**
 Gavrea, Ioan Formule de moyennă de formă Popoviciu-Ciorănescu. [Mean value formulas of Popoviciu-Ciorănescu form] **86h:41023**
 Gorbachuk, V. I. (with Kalapusha, O. L.) Approximation of a function by Gauss-Weierstrass operators. (Russian) **86k:41025**
 Kalapusha, O. L. See Gorbachuk, V. I., **86k:41025**
 Păltănea, Radu L'estimation de l'approximation des fonctions continues par les opérateurs de Brass. [Estimating the approximation of continuous functions by Brass operators] **86g:41035**
 Prasad, Govind See Singh, Suresh Prasad et al., **86e:41040**
 Shekhtman, Boris On projections in approximation theory. **86e:41039**

- Sikkema, P. C. An example of fast approximation with convolution operators. **86k:41026**
 Singh, Suresh Prasad (with Varshney, O. P.; Prasad, Govind) On convergence of the derivatives of Baskakov-type operators. (Italian summary) **86e:41040**
 Su, Wei Yi See Zheng, Wei Xing, **86d:41027**
 Varshney, O. P. See Singh, Suresh Prasad et al., **86e:41040**
 Veisov, I. A. Saturation classes for m -singular integrals of Weierstrass type in the space $L^p(-\infty, \infty)$ ($p \geq 1$). (Russian) **86e:41015**
 Xie, Dun Li A note on the Szász-Mirakyan operator. (Chinese. English summary) **86e:41041**
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- Baskakov, V. A. Approximation of function classes $C(c)$ by de la Vallée-Poussin sums and linear polynomial operators. (Russian) **86k:42001**
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 Feeman, Timothy G. Best approximation and quasitriangular algebras. **86b:47080**
 Maury, E. A class of generalized Szász operators and their convergence properties. **86k:41022**
 Rusak, V. N. See Ta Hông Quang, **86j:41014**
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 Weis, L. W. Approximation by weakly compact operators in L_1 . **86h:47070**
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 Yu, Xiang Ming Asymptotic expansions of Fejér-Korovkin operators and some interpolation operators. (Chinese. English summary) **86b:42003**

41A36 Approximation by positive operators

- Abdulofizov, Sh. Approximation of functions of the class $C\Phi(\mathbb{R})$ by linear positive operators on the whole axis. (Russian. Tajiki summary) **86i:41017**
 Altomare, Francesco On the universal convergence sets. **86h:41024**
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 Marlewski, Adam Die Grenze der Folge der Potenzen vom verallgemeinerten Bernstein-operator auf dem Simplex. (English summary) [The limit of the sequence of powers of the generalized Bernstein operator on the simplex] **86k:41028**
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 Prasad, Govind See Sahai, Ashok, **86a:41024**
 Raga, I. A Korovkin type theorem for the Lion operators. (See **86f:00008**)
 Sahai, Ashok (with Prasad, Govind) Sharp estimates of approximation by some positive linear operators. **86a:41024**
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 Totik, V. Uniform approximation by positive operators on infinite intervals. (Russian summary) **86e:41043**
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 Yu, Xiang Ming An asymptotic expansion of some positive linear operators. II. (Chinese) **86m:41028**

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- Anastassiou, G. A. A " K -attainable" inequality related to the convergence of positive linear operators. **86m:41015**
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 Kirkorov, I. Convergence of sequences of linear operators in a complex domain. (Bulgarian. English and Russian summaries) **86d:30060**
 Kostova, V. A. Approximation of continuous functions of several variables by Bernstein polynomials in the Hausdorff metric. (Bulgarian. English and Russian summaries) **86g:41013**
 Locher, F. On Hermite-Fejér interpolation at Jacobi zeros. **86m:41004**
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 Timofeev, V. G. An inequality of Landau type for functions of several variables. (Russian) **86m:41033**

Totik, V. Some properties of a new kind of modulus of smoothness. (German and Russian summaries) **86b:41031**

41A40 Saturation

- Becker, Michael (with Fink, K. M.; Nessel, R. J.) Approximation by Bernstein polynomials in weighted BV-spaces. **86c:41018**
- Bloom, Walter R. (with Sussich, Joseph F.) Saturation on locally compact abelian groups. **86g:41037**
- Fink, K. M. See Becker, Michael et al., **86c:41018**
- Nessel, R. J. See Becker, Michael et al., **86c:41018**
- Ries, S. (with Stens, R. L.) Saturation theorems for families of dual operators. **86a:41025**
- Stark, E. L. On a certain class of positive cosine kernels in connection with saturation. **86i:41019**
- Stens, R. L. See Ries, S., **86a:41025**
- Sun, Xie Hua On saturation of generalized rational operators and their approximation theorems. (Chinese) **86m:41029**
- Sussich, Joseph F. See Bloom, Walter R., **86g:41037**

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- Dryanov, Dimităr P. On the convergence and saturation problem of a class of discrete linear operators of exponential type in $L_p(-\infty, +\infty)$ spaces. **86g:41032**
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- Velsov, I. A. Saturation classes for m -singular integrals of Weierstrass type in the space $L^p(-\infty, \infty)$ ($p \geq 1$). (Russian) **86c:41015**
- Wang, Mei Qin See Shi, Xian Liang, **86d:42003**

41A44 Best constants

- ter Morsche, H. G. (with Schurer, F.) Euler L -splines and an extremal problem for periodic functions. **86i:41020**
- Schurer, F. See ter Morsche, H. G., **86i:41020**

secondary classifications (41A44)

- Angelos, James (with Egger, A. G.) Strong uniqueness in L^p spaces. **86a:41027**
- Din' Zung The number of integral points in some set and approximation of functions of several variables. (Russian) **86c:42004**
- Egger, A. G. See Angelos, James, **86a:41027**
- Rivlin, T. J. The strong uniqueness constant in complex approximation. **86k:41033**

41A45 Approximation by arbitrary linear expressions

- Janc, Mirko Global Kolmogorov condition and good approximation. **86a:41044**

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- Chalmers, Bruce L. The $(*)$ -equation and the form of the minimal projection operator. **86a:41032**
- Chirikalov, V. A. See Kalaida, A. F., **86g:85046**
- Kalaida, A. F. (with Chirikalov, V. A.) Approximation of the zero rank of a superposition of functions, and matrix algorithms of numerical differentiation. (Russian) **86g:85046**
- Kroó, A. On the unicity of best Chebyshev approximation of differentiable functions. **86g:41046**
- McCullough, Scott (with Wulbert, Daniel) The topological spaces that support Haar systems. **86g:41047**
- Shekhtman, Boris On projections in approximation theory. **86e:41039**
- Wulbert, Daniel See McCullough, Scott, **86g:41047**

41A46 Approximation by arbitrary nonlinear expressions; widths and entropy

- Almuloev, N. The value of widths of certain classes of differentiable functions in L_2 . (Russian. Tajiki summary) **86j:41021**
- Burchard, H. G. (with Höllig, K.) N -width and entropy of H_p -classes in $L_q(-1, 1)$. **86i:41021**
- Fang, Gen Sun Widths of generalized Bernoulli kernels and linear interpolation operators. (Chinese) (Not in MR)
- Höllig, K. See Burchard, H. G., **86i:41021**
- Huang, Da Ren See Sun, Yong Sheng (Not in MR)
- Konovalov, V. N. Estimates of diameters of Kolmogorov type for classes of differentiable periodic functions. (Russian) **86c:41019**
- Makovos, Y. On trigonometric n -widths and their generalization. **86g:41038**
- Melkman, Avraham A. n -widths and optimal interpolation of time- and band-limited functions. II. **86h:41026**
- Pinkus, A. n -widths in approximation theory: a survey. **86h:41027**
- n -widths of Sobolev spaces in L^p . **86d:41029**
- Pukhov, S. Some relations between diameters. (Russian) **86g:41039**
- Sun, Yong Sheng Some extremal problems on a class of perfect splines. **86d:41030**
- (with Huang, Da Ren) On the width of generalized Bernoulli kernels. (Chinese) (Not in MR)
- Taberak, Roman One-sided approximation in metrics of the Banach spaces $L^p(-\infty, \infty)$. **86k:41029**
- Estimates for entire functions of exponential type. **86k:41030**

- Volodina, I. N. Exact value of widths of a certain class of solutions of linear differential equations. (Russian summary) **86m:41030**
- Wasilkowski, G. W. Inverse function problem. (German and Russian summaries) **86a:41026**

secondary classifications (41A46)

- Asarin, E. A. Complexity of uniform approximations of continuous functions. (Russian) **86c:68041**
- Bulaev, A. P. (with Tikhomirov, V. M.) Some problems of nonlinear analysis and approximation theory. (Russian) **86j:34023**
- Din' Zung The number of integral points in some set and approximation of functions of several variables. (Russian) **86c:42004**
- Approximation of classes of smooth functions of several variables. (Russian. English summary) **86h:42002**
- Dunham, C. B. (with Zhu, Chang Zhong) Discretization of varisolvant approximation with weights large on nodes. **86g:41034**
- Parfenov, O. G. Gelfand diameters of the unit ball of the Hardy class H^p in weight spaces. (Russian) **86i:46027**
- Pinkus, A. n -widths in approximation theory. **86k:41001**
- Pych-Taberska, Paulina On some extremal approximation problems in classes D' . **86k:42005**
- Tikhomirov, V. M. See Bulaev, A. P., **86j:34023**
- Zhu, Chang Zhong See Dunham, C. B., **86g:41034**

41A50 Best approximation, including Chebyshev systems

- Abilov, V. A. I. V. Taenov's work in constructive function theory. (Russian) **86g:41040**
- Al-Rashed, Abdallah M. (with Darst, Richard B.) Best L_∞ -approximation of measurable, vector-valued functions. **86b:41033**
- A sufficient condition for convergence of best L_∞ -approximations to the right function. (Arabic summary) **86e:41045**
- Andrievskii, V. V. Description of classes of functions with a given rate of decrease of their best uniform polynomial approximations. (Russian) **86b:41034**
- Angelos, James (with Egger, A. G.) Strong uniqueness in L^p spaces. **86a:41027**
- Babaev, M.-B. A. Best approximation by functions of fewer variables. (Russian) **86g:41041**
- Blatt, Hans-Peter Exchange algorithms, error estimations and strong unicity in convex programming and Chebyshev approximation. **86k:41031**
- Darst, Richard B. See Al-Rashed, Abdallah M., **86b:41033**
- Egger, A. G. (with Taylor, G. D.) Strong uniqueness in convex L^p approximation. **86a:41028**
- See also Angelos, James, **86a:41027**
- Gruber, P. Planar Chebyshev sets. **86k:41032**
- Henry, Myron S. (with Kaufman, Edwin H., Jr.; Lenker, Terry D.) Lipschitz constants for small perturbations. **86g:41042a**
- (with Kaufman, Edwin H., Jr.; Lenker, Terry D.) Lipschitz constants on sets with small cardinality. **86g:41042b**
- Huotari, Robert Best L_1 -approximation of quasicontinuous functions on $[0, 1]$ by nondecreasing functions. **86m:41031**
- Kaufman, Edwin H., Jr. See Henry, Myron S. et al., **86g:41042a** and **86g:41042b**
- Korneichuk, N. P. On the problem of the best linear method of approximation for the class H^m . (Russian) **86m:41032**
- Kroó, A. Some theorems on best L_1 -approximation of continuous functions. **86a:41029**
- On differentiability of the operator of best L_1 -approximation. **86e:41046**
- On an L_1 -approximation problem. **86h:41028**
- On Chebyshev subspaces in the space of multivariate differentiable functions. **86a:41030**
- Kryashinskii, A. V. (with Osipov, Yu. S.) Best approximation of the differentiation operator in a class of nonanticipating operators. (Russian) **86h:41029**
- Lenker, Terry D. See Henry, Myron S. et al., **86g:41042a** and **86g:41042b**
- Lorentz, G. G. Distribution of alternation points in uniform polynomial approximation. **86e:41047**
- Osipov, Yu. S. See Kryashinskii, A. V., **86h:41029**
- Pham Dinh Tao Problème inverse du lieu des meilleures approximations linéaires. [Inverse problem of the locus of best linear approximations] **86e:41048**
- Rustamov, Kh. P. Direct theorems on best L_p -approximation on a sphere S^{n-1} . (Russian. English and Azerbaijani summaries) **86h:41030**
- Sha, Zhen (with Wu, Zheng Chang) The best approximation, under restrictive conditions, to the one-directional Hausdorff distance. (Chinese. English summary) **86c:41020**
- Shoaff, William D. Tchebycheff approximation of continuous functions by harmonic polynomials on conic sections. **86i:41022**
- Streit, Roy L. Saddle points and overdetermined complex equations. **86g:41043**
- Taylor, G. D. See Egger, A. G., **86a:41028**
- Temlyakov, V. N. Best bilinear approximations of periodic functions of several variables. (Russian) (Not in MR)
- Timofeev, V. G. An inequality of Landau type for functions of several variables. (Russian) **86m:41033**
- Todd, John Applications of transformation theory: a legacy from Zolotarev (1847-1878). **86g:41044**
- Uhrin, Béla A characterization of generalized juxtapolynomials on finite point sets. **86d:41031**
- Vinogradov, O. M. p -supremal generators and Chebyshev systems. (Russian) **86g:41045**
- Wu, Zheng Chang See Sha, Zhen, **86c:41020**
- Zhidkov, G. V. Differential properties of functions on the sphere. (Russian) **86e:41049**
- (Zolotarev, E. I.) See Todd, John, **86g:41044**

secondary classifications (41A50)

- Almacany, M. (with Dunham, C. B.; Williams, Jack) Discrete Chebyshev approximation by interpolating rationals. **86j:65021**
- Babenko, V. F. (with Kofanov, V. A.) Fixed-sign polynomials deviating least from zero in L_p spaces. (Russian) **86i:41005**
- Baskakov, V. A. Comparison of rates of approximation and estimation of norms of linear operators on classes $C(\epsilon)$. **86b:42002**
- Brannigan, M. Discrete Chebyshev approximation with linear constraints. **86d:65051**
- Butser, Paul L. Legendre transform methods in the solution of basic problems in algebraic approximation. **86a:41003**
- Canuto, C. (with Quarteroni, Alfio) Variational methods in the theoretical analysis of spectral approximations. **86d:65143**
- Cho, Chong Man (with Johnson, William B.) A characterization of subspaces X of l_p for which $K(X)$ is an M -ideal in $L(X)$. **86b:46026**
- Dunham, C. B. (with Zhu, Chang Zhong) A limit theorem of discretization with weights large on nodes. **86m:41022**
- See also Almacany, M. et al., **86j:65021**
- Ginchev, Ivan G. See Nedelcheva, Mariana D., **86g:41021**
- Goldstein, Myron (with Hausmann, Werner; Jetter, K.) Best harmonic L^1 approximation to subharmonic functions. **86b:31002**
- Guerrero Casas, Flor Ma. See López Carmona, Antonio, **(86g:00009)**
- Gutknecht, Martin H. See Trefethen, Lloyd N., **86e:41031**
- Hausmann, Werner See Goldstein, Myron et al., **86b:31002**
- Jetter, K. See Goldstein, Myron et al., **86b:31002**
- Johnson, William B. See Cho, Chong Man, **86b:46026**
- Katulev, A. N. See Tukhvatullin, V. V., **86e:65025**
- Kemperman, J. H. B. Least absolute value and median polish. **86m:62124**
- Khaleelulla, S. M. See Sahab, Salem A., **86m:41021**
- Kofanov, V. A. See Babenko, V. F., **86i:41005**
- Kunchev, O. I. A harmonic function that deviates least from a given function that is continuous in the disc. (Russian. English summary) **86f:31001**
- Labesker, L. G. Characterization of Chebyshev systems and sufficient conditions for their nonextendability. (Russian) **86k:41008**
- López Carmona, Antonio (with Guerrero Casas, Flor Ma.) Accelerating linear convergence. (Spanish. English summary) (See **86g:00009**)
- Mukhtarov, A. Sh. Approximation of entire functions of logarithmic order that can be represented by Dirichlet series. (Russian) **86m:30006**
- Müller, M. W. Der Remez-Algorithmus für die rationale Tschebyscheff-Approximation. (English summary) [The Remez algorithm for the rational Chebyshev approximation] **86h:41014**
- Nedelcheva, Mariana D. (with Ginchev, Ivan G.) Asymptotic estimates for the best approximation of strictly n -convex functions with Chebyshevian splines. **86g:41021**
- Peherstorfer, Franz On a sufficient condition for best L^1 -approximation. **86j:41011**
- Petrova, Irina Jackson's theorem and Besov spaces on a sphere. (Russian) **86f:46038**
- Popov, Blagoj S. Some characteristics of Chebyshev polynomials. (Serbo-Croatian. French summary) **86c:33020**
- Prasad, Govind See Sahal, Ashok, **86a:41024**
- Quarteroni, Alfio See Canuto, C., **86d:65143**
- Rusak, V. N. Exact orders of best rational approximations for classes of functions representable in convolution form. (Russian) **86k:41019**
- Best rational approximation of functions representable in the form of a convolution. (Russian. English summary) **86e:41024**
- Sahab, Salem A. (with Khaleelulla, S. M.) Best simultaneous approximation in L_p norm and L_p quasinorm. (Arabic summary) **86a:41021**
- Sahal, Ashok (with Prasad, Govind) Sharp estimates of approximation by some positive linear operators. **86a:41024**
- Shawyer, B. L. R. Best approximation of positive power series. **86g:41014**
- Shi, Ying Guang Constrained rational approximation. **86e:41025**
- Sorich, N. N. A method of summation of Fourier series. (Russian) **86j:42003a**
- Strauss, Hans Best L_1 -approximation. **86a:4102a**
- Characterization of strict approximations in subspaces of spline functions. **86a:41012b**
- An algorithm for the computation of strict approximations in subspaces of spline functions. **86a:41012c**
- Timoshin, O. A. Best approximation of the operator of the second mixed derivative in the metrics of L and C in the plane. (Russian) **86b:41040**
- Trefethen, Lloyd N. (with Gutknecht, Martin H.) On convergence and degeneracy in rational Padé and Chebyshev approximation. **86e:41031**
- Tsukada, Makoto Convergence of best approximations in a smooth Banach space. **86a:41034**
- Tukhvatullin, V. V. (with Katulev, A. N.) Optimal partition of an interval in piecewise-linear approximation of convex curves. (Russian) **86e:65025**
- Williams, Jack See Almacany, M. et al., **86j:65021**
- Ye, Mao Dong The optimal approximation of the function $|x|$ by a polynomial of degree 5. (Chinese. English summary) **86g:41016**
- Zhou, Song Ping On a theorem of Hasson. (Chinese. English summary) **86a:41021**
- Zhu, Chang Zhong See Dunham, C. B., **86m:41022**
- Ziętak, K. The Chebyshev solution of the linear matrix equation $AX + YB = C$. **86m:65036**

41A52 Uniqueness of best approximation

- Kroó, A. On the unicity of best Chebyshev approximation of differentiable functions. **86g:41046**
- McCullough, Scott (with Wulbert, Daniel) The topological spaces that support Haar systems. **86g:41047**
- Rivlin, T. J. The strong uniqueness constant in complex approximation. **86k:41033**
- Wulbert, Daniel See McCullough, Scott, **86g:41047**

secondary classifications (41A52)

- Egger, A. G. (with Taylor, G. D.) Strong uniqueness in convex L^p approximation. **86a:41028**
- Janc, Mirko Global Kolmogorov condition and good approximation. **86e:41044**
- Kroó, A. On an L_1 -approximation problem. **86h:41028**
- Lorentz, Rudolph A. Simultaneous approximation and Birkhoff interpolation. II. The periodic case. **86j:41018**
- Nürnberg, G. Global unicity in optimization and approximation. (Not in MR)
- Strauss, Hans Uniqueness of best Chebyshev approximations in spline subspaces. **86k:41017**
- Taylor, G. D. See Egger, A. G., **86a:41028**

41A55 Approximate quadratures

- Chakhkiev, M. A. Linear differential operators with real spectrum, and optimal quadrature formulas. (Russian) **86h:41031**
- Kirov, G. Kh. Optimal quadrature formulas on the classes $W^r H_{\omega}[0, 1]$. (Russian) **86m:41034**
- Mamedov, G. A. The order of approximation of a two-dimensional singular integral. (Russian) **86b:41035**
- Micelli, Charles A. (with Sharma, Ambikeshwar) On a problem of Turán: multiple node Gaussian quadrature. (Italian summary) **86d:41032**
- Sharma, Ambikeshwar See Micelli, Charles A., **86d:41032**
- Temirgaliev, N. See Voronin, S. M., **86e:41051**
- Thron, W. J. Quadrature formulae and moment problems. **86e:41050**
- Voronin, S. M. (with Temirgaliev, N.) Some applications of the Banach measure. (Russian. Kazakh summary) **86e:41051**

secondary classifications (41A55)

- Andersson, Jan-Erik (with Boyanov, Borislav D.) A note on the optimal quadrature in H^p . **86a:65023**
- Boyanov, Borislav D. See Andersson, Jan-Erik, **86a:65023**
- Busenberg, Stavros N. (with Fisher, David) Spline quadrature formulas. **86d:41009**
- Coman, Gh. The optimal quadrature formulas from efficiency point of view. **86i:65014**
- Dagnino, C. (with Orsi Palamara, Annamaria) On the evaluation of certain two-dimensional singular integrals with Cauchy kernels. **86j:65027**
- Davis, Philip J. (with Rabinowitz, Philip) ★ Methods of numerical integration. **86d:65004**
- Elhay, S. See Kautsky, J., **86f:65049**
- Fisher, David See Busenberg, Stavros N., **86d:41009**
- He, Tian Xiao See Zhou, Yun Shi, **86f:65054**
- Kautsky, J. (with Elhay, S.) Gauss quadratures and Jacobi matrices for weight functions not of one sign. **86f:65049**
- Koch, Per Erik An extension of the theory of orthogonal polynomials and Gaussian quadrature to trigonometric and hyperbolic polynomials. **86e:41011**
- Korchanov, S. V. Optimal methods of integration of unimodal functions. (Russian) **86f:65050**
- Orsi Palamara, Annamaria See Dagnino, C., **86j:65027**
- Peherstorfer, Franz Characterization of quadrature formula. II. **86a:65025**
- Peng, Wu See Rudd, W. G. et al., **86j:65026**
- Piñar González, Miguel Angel Gauss quadrature formulas associated with a not necessarily definite functional. (Spanish) (See **86g:00009**)
- Rabinowitz, Philip See Davis, Philip J., **86d:65004**
- Ramasanov, M. D. The order of convergence of lattice cubature formulas in spaces with a dominant derivative. (Russian) **86e:65042**
- Rudd, W. G. (with Wang, Chien J.; Peng, Wu) Efficient integration over polytopes. **86j:65026**
- Solak, W. Folgen für eine Zweiquadraturformel. [Sequences for a two-quadrature formula] **86m:65026**
- Strauß, Raimond Eine Interpolationsquadratur für Cauchy-Hauptwertintegrale. [An interpolation quadrature for Cauchy principal values of integrals] **86g:65057**
- Tokov, G. Convergence of multidimensional quadrature formulas. (Russian) **86f:65053**
- Wang, Chien J. See Rudd, W. G. et al., **86j:65026**
- Wimp, Jet Some explicit Padé approximants for the function Φ'/Φ and a related quadrature formula involving Bessel functions. **86k:33016**
- Zhou, Yun Shi (with He, Tian Xiao) A method for constructing a kind of boundary-type quadrature formulas. (Chinese. English summary) **86f:65054**

41A58 Series expansions (e.g. Taylor, Lidstone series, but not Fourier series)

- Ram, Babu Integrability of power series. **86m:41035**

secondary classifications (41A58)

- Arutyunyan, F. G. Representation of measurable functions by bases in L^p , $p \geq 2$. (Russian. English and Armenian summaries) **86k:42047**
- Miller, John Boris The Euler-Maclaurin sum formula for a closed derivation. **86d:47043**

41A60 Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30E15.]

- Abel, Ulrich Asymptotische Approximation durch Dirichlet-Reihen mit Anwendungen auf verallgemeinerte Abelverfahren. [Asymptotic approximation by Dirichlet series with applications to generalized Abel methods] **86i:41023**
- Bondarenko, V. F. (with Fedoryuk, M. V.) Asymptotics of the sum of a Schlömilch series. (Russian) **86c:41021**
- Duval, Anne Étude asymptotique d'une intégrale analogue à la fonction "T modifiée". [Asymptotic study of an integral analogous to the modified T-function] **86b:41036**
- Fedoryuk, M. V. See Bondarenko, V. F., **86c:41021**

Riekstina, V. Uniform asymptotic expansions of a class of Laplace integrals. (Russian)

86b:41037

Spigler, Renato Asymptotic series and perturbation theory. (Italian) 86c:41022

Double limits and matched asymptotic expansions. 86a:41031

secondary classifications (41A60)

van Asche, Walter Asymptotic properties of orthogonal polynomials from their recurrence formula. I. 86h:33009

See also Maeljma, Makoto, 86c:33019

Bai, Dong Hua See Tang, Xian Jiang, 86d:58113

Berg, Lothar Zur Asymptotik der LR -Aufspaltung Toeplitzscher Bandmatrizen. [On the asymptotics of the LR -splitting of Toeplitz band matrices] 86f:15005

Berndt, B. C. (with Evans, Ronald) Chapter 13 of Ramanujan's second notebook: integrals and asymptotic expansions. 86j:01032

Bogomol'nyi, E. B. High-order terms of the quasiclassical expansion in quantum mechanics. 86m:81045

Borovikov, V. A. The stationary phase method for two-dimensional regions with angular points. (Russian) 86i:58129

Chen, Tian Ping Asymptotic expansion for splines. 86d:41010

Davies, Ian M. (with Truman, A.) Laplace asymptotic expansions of conditional Wiener integrals and generalised Mehler kernel formulae for Hamiltonians on $L^2(\mathbb{R}^n)$. 86k:81058

Eleonakii, V. M. (with Kulagin, N. E.; Novozhilova, N. S.; Silin, V. P.) The method of asymptotic expansions and qualitative analysis of finite-dimensional models in nonlinear field theory. (Russian. English summary) 86f:35041

Evans, Ronald See Berndt, B. C., 86j:01032

Frensen, C. L. (with Wong, Roderick) On the asymptotic behavior of the Lebesgue constants for Jacobi series. 86f:33013

Gafarov, A. See Israelova, M. M., 86b:43020

Gennarelli, Claudio (with Palumbo, Luigi) A uniform asymptotic expansion of a typical diffraction integral with many coalescing simple pole singularities and a first-order saddle point. 86c:78015

He, Tian Xiao (with Wang, Ren Hong) The asymptotic estimate of the Hermite-Fejér process on the Chebyshev nodes. II. (Chinese. English summary) 86j:41001

Immink, Geertui K. ★ Asymptotics of analytic difference equations. 86c:39002

Israelova, M. M. (with Gafarov, A.) Rate of summability by the Cesàro method of multiple Fourier series and series conjugate to them. (Russian. Tajiki summary) 86k:43020

Kulagin, N. E. See Eleonakii, V. M. et al., 86f:35041

Kushpel', A. K. A method of approximation of periodic functions. (Russian) 86h:42007

Lasarevič, I. (with Lupas, A.) On the approximation of the logarithmic function by sequences of algebraic functions. I, II. (Serbo-Croatian summary) 86d:41021

Lengyel, T. On the Stirling numbers of the second kind. (Russian summary) 86i:05007

Lupas, A. See Lasarevič, I., 86d:41021

Maeljma, Makoto (with van Asche, Walter) Probabilistic proofs of asymptotic formulas for some classical polynomials. 86c:33019

Máté, Attila (with Neval, Paul) Asymptotics for solutions of smooth recurrence equations. 86d:39002

Miller, John Boris The operator remainder in the Euler-Maclaurin formula. 86m:41040

Mosoll, S. V. The closeness of solutions of the initial and the averaged problem of electrodynamics and viscoelasticity. (Russian) 86h:35121

Neval, Paul See Máté, Attila, 86d:39002

Novozhilova, N. S. See Eleonakii, V. M. et al., 86f:35041

Nuttall, J. Asymptotics of diagonal Hermite-Padé polynomials. 86j:41017

Odlysko, A. M. (with Richmond, L. B.) Asymptotic expansions for the coefficients of analytic generating functions. 86c:05019

(with Richmond, L. B.) On the unimodality of high convolutions of discrete distributions. 86m:60039

Palumbo, Luigi See Gennarelli, Claudio, 86c:78015

Richmond, L. B. See Odlysko, A. M., 86c:05019 and 86m:60039

Riekstina, E. A method for estimation of the remainder in asymptotic expansions of certain finite sums and integrals. (Russian) 86h:30073a

Estimates of remainders in asymptotic expansions of integrals by the method of successive expansion. (Russian) 86h:30073b

Sidi, Avram Asymptotic expansions of Mellin transforms and analogues of Watson's lemma. 86i:44004

Silin, V. P. See Eleonakii, V. M. et al., 86f:35041

Skorupski, Andrzej A. Double phase-integral approximations: a systematic simplification technique for wave equations with cutoffs and resonances. 86k:34003

Transmission through cutoffs and resonances in the double phase-integral approximation. 86k:34004

Sobolev, S. L. Comportement asymptotique des racines des polynômes d'Euler. (English and Italian summaries) [Asymptotic behavior of the roots of Euler polynomials] 86h:33013

Tang, Xian Jiang (with Bai, Dong Hua) Asymptotic expansions of a class of oscillatory integrals with degenerate phase function. (Chinese. English summary) 86d:58113

Temme, N. M. Laplace type integrals: transformation to standard form and uniform asymptotic expansions. 86f:44005

Titulaer, U. M. The density profile for the Klein-Kramers equation near an absorbing wall. 86c:82028

Truman, A. See Davies, Ian M., 86k:81058

Wang, Ren Hong See He, Tian Xiao, 86j:41001

Wong, Roderick See Frensen, C. L., 86f:33013

Yu, Xiang Ming Asymptotic expansions of Fejér-Korovkin operators and some interpolation operators. (Chinese. English summary) 86b:42003

An asymptotic expansion of some positive linear operators. II. (Chinese) 86m:41028

Zav'yalov, O. I. Method of approximate calculation of Feynman diagrams. III. (Russian. English summary) 86f:81046

41A63 Multidimensional problems (should also be assigned at least one other classification number in this section)

secondary classifications (41A63)

Barrar, R. B. (with Loeb, H. L.) Some remarks on the exact controlled approximation order of bivariate splines on a diagonal mesh. 86k:41012

de Boor, Carl Wilhelm R. (with Höllig, K.) B -splines from parallelepipeds. 86d:41008

Cheney, E. W. Four lectures on multivariate approximation. 86i:41024

Cuyt, Annie A. M. Operator Padé approximants: some ideas behind the theory and a numerical illustration. 86b:41016

Dahmen, Wolfgang (with Micchelli, Charles A.) On the optimal approximation rates for criss-cross finite element spaces. 86a:41006

Gregor, J. Interpolation with positive real functions of several variables. 86c:65010

Hakopian, Hakop Integral remainder formula of the tensor product interpolation. (Russian summary) 86g:41004

Multivariate interpolation II of Lagrange and Hermite type. 86m:41002

Halton, E. J. (with Light, W. A.) Projections on tensor product spaces. 86b:41039

Hausmann, Werner (with Jetter, K.; Steinhaus, Bernd) Degree of best approximation by trigonometric blending functions. 86i:42003

Höllig, K. See de Boor, Carl Wilhelm R., 86d:41008

Jetter, K. See Hausmann, Werner et al., 86i:42003

Kim, Ha Jine On the numerical behaviors of cubic-quartic spline fits. 86d:65022

Kostova, V. A. Approximation of functions of several variables by linear positive operators in the Hausdorff metric. (Bulgarian. English and Russian summaries) 86c:41017

Light, W. A. See Halton, E. J., 86b:41039

Loeb, H. L. See Barrar, R. B., 86k:41012

Lorents, G. G. (with Lorents, Rudolph A.) Multivariate interpolation. 86j:41003

Lorents, Rudolph A. See Lorents, G. G., 86j:41003

Lutterodt, C. H. Meromorphic functions, maps and their rational approximants in \mathbb{C}^n . 86i:41014

Madych, W. R. (with Potter, E. H.) An estimate for multivariate interpolation. 86g:65023

Mamedov, G. A. The order of approximation of a two-dimensional singular integral. (Russian) 86b:41035

Micchelli, Charles A. See Dahmen, Wolfgang, 86a:41006

Mynbaev, K. T. Bounds of the approximation numbers of imbeddings of anisotropic Sobolev spaces with a weight. (Russian) 86c:46036

Potter, E. H. See Madych, W. R., 86g:65023

Rack, H.-J. On multivariate polynomial L^2 -approximation to zero. (Russian summary) 86j:41004

Sevast'yanov, E. A. Estimation of the smallness of the set of points of nondifferentiability of functions depending on the rate of their rational approximation. (Russian) 86i:41013

Steinhaus, Bernd See Hausmann, Werner et al., 86i:42003

Taranov, I. S. A generalization of an interpolation algebraic polynomial to the case of several variables. (Russian) 86c:41005

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- Tomić, Miloš. Best angular approximation and angular approximation of singular integrals. (Russian. Serbo-Croatian summary) **86e:42007**
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- Kus'mina, A. L. Interval trigonometric interpolation. (Russian) **86a:42006**
- Nasarenko, N. A. See Vakarchuk, S. B., **86k:42011**
- Rukasov, V. I. Approximation of continuous periodic functions of several variables by Rogosinski polynomials of interpolational type. (Russian) **86e:42002**
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- Lee, Seng Luan. See Goodman, T. N. T., **86i:41002**
- Lorentz, G. G. Theorem of Budan-Fourier and Birkhoff interpolation. **86k:41003**
- Neval, Paul. Solution of Turán's problem on divergence of Lagrange interpolation in L^p with $p > 2$. **86d:41004**
- Privalov, A. A. An analogue of A. A. Markov's inequality. Application to interpolation and Fourier series. (Russian) **86j:42001**
- Scherer, R. (with Zeller, K.) Examples in bivariate approximation. **86k:42008**
- Sharma, Ambikeshwar. Birkhoff interpolation on the roots of unity. **86g:41007**
- Zeller, K. See Scherer, R., **86k:42008**

42A16 Fourier coefficients, Fourier series of functions with special properties, special Fourier series

- Beriša, Muharem Č. (with Turku, H.; Rajović, M.) Fourier coefficients of a lacunary series of functions in the class $H(p, k, \varphi)$. (Serbo-Croatian. Russian summary) **86d:42004**

- Bray, William O. On the Sidon-Telyakovskii integrability class for cosine series. **86j:42005**
- D'yachenko, M. I. On some properties of trigonometric series with monotone decreasing coefficients. (Russian summary) **86j:42006**
- Gavrilyuk, V. T. Estimates for Fourier coefficients of continuous periodic functions. (Russian) **86m:42008**
- Izaa, P. A space of regulated functions whose Fourier series are everywhere convergent. (See **86d:00017**)
- Kathal, P. D. (with Shukla, H. L.) Matrix-Cesàro summability: $T(C, 1)$ of the sequence of Fourier coefficients. **86j:42007**
- Kislyakov, S. V. Remarks on "correction". (Russian. English summary) **86e:42009**
- Lee, Cheng Ming. On generalizations of exact Peano derivatives and integrals via the coefficient problems of convergent trigonometric series. **86d:42005**
- Murray, Margaret A. M. Multilinear convolutions and transference. **86e:42003**
- Pfuger, A. On the diameter of planar curves and Fourier coefficients. **86a:42007**
- Rajović, M. See Beriša, Muharem Č. et al., **86d:42004**
- Shell-Small, T. On the Fourier series of a finitely described convex curve and a conjecture of H. S. Shapiro. **86m:42009**
- Shukla, H. L. See Kathal, P. D., **86j:42007**
- Stepanets, A. I. Deviations of Fourier sums on classes of infinitely differentiable functions. (Russian) **86e:42010**
- Telyakovskii, S. A. Integrability of sine series. (Russian) **86b:42004**
- Turku, H. See Beriša, Muharem Č. et al., **86d:42004**
- Yanakov, G. S. Boundedness in L space of Fourier-Stieltjes sums. (Russian. English and Georgian summaries) **86h:42008**

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- Belov, M. A. Fourier-asymptotic approximation of smooth periodic functions. (Russian) **86e:42003**
- Bourgain, J. On the dichotomy problem for tensor algebras. **86m:43005**
- Brown, Gavin (with Moran, William; Tijdeman, R.) Riesz products are basic measures. **86b:42012**
- Cain, A. B. (with Ferziger, Joel H.; Reynolds, W. C.) Discrete orthogonal function expansions for nonuniform grids using the fast Fourier transform. **86e:65170**
- Feichtinger, Hans G. Compactness in translation invariant Banach spaces of distributions and compact multipliers. **86f:43004**
- Ferziger, Joel H. See Cain, A. B. et al., **86e:65170**
- Kislyakov, S. V. A new correction theorem. (Russian) **86e:43011**
- Logli, Augusto. The positive part of a Fourier transform. **86e:42017**
- Moran, William. See Brown, Gavin et al., **86b:42012**
- Ram, Babu. Integrability of power series. **86m:41035**
- Reynolds, W. C. See Cain, A. B. et al., **86e:65170**
- Tijdeman, R. See Brown, Gavin et al., **86b:42012**
- Wang, Hann Tsong. Convex functions and Fourier coefficients. **86k:26012**

42A20 Convergence of Fourier and trigonometric series

- Agrawal, S. R. (with Patel, C. M.) On boundedness of difference kernels of Dini and Fourier series of a function. **86g:42010**
- Arutyunyan, F. G. A strengthening of Men'shov's "correction" theorem. (Russian) **86a:42008**
- Bloshanskii, I. L. Divergence almost everywhere of a Fourier series on a given set and convergence to zero outside of it. (Russian) **86h:42009**
- Bojanic, Ranko (with Waterman, Daniel) On the rate of convergence of Fourier series of functions of generalized bounded variation. (Serbo-Croatian summary) **86a:42009**
- Bray, William O. (with Stanojević, Vera B.) On the integrability of complex trigonometric series. **86d:42006**
- Galst'yan, S. Sh. Everywhere divergent trigonometric series. (Russian) **86i:42004**
- Hsiang, Wen-Hang. On the degrees of convergence of Abel and conjugate-Abel sums. **86k:42012**
- Mhaskar, H. N. Extensions of the Dirichlet-Jordan criterion to a general class of orthogonal polynomial expansions. **86e:42011**
- Mutafchiev, D. Zh. See Savov, T. P., **86e:42012**
- Patel, C. M. See Agrawal, S. R., **86g:42010**
- Pogosyan, N. B. Convergence of rearranged trigonometric Fourier series in L_1 . (Russian. English summary) **86j:42008**
- Savov, T. P. (with Mutafchiev, D. Zh.) Investigation of the convergence of two infinite numerical sequences. (Bulgarian. German and Russian summaries) **86e:42012**
- Shiba, Masaaki. The uniform convergence of Fourier series of function of A -bounded variation of order P . **86d:42007**
- Soria, Fernando. Integral characterization of a space generated by blocks. **86k:42013**
- Stanojević, Vera B. See Bray, William O., **86d:42006**
- Torrea Hernández, José Luis. Vector version of the Dini-Lipschitz and Bernstein criteria. (Spanish. English summary) (See **86h:00009a**)
- Totik, V. Note on a result of K. Tandori. **86h:42010**
- Waterman, Daniel. Functions whose Fourier series converge uniformly for every change of variable. II. **86k:42014**
- See also Bojanic, Ranko, **86a:42009**
- Xie, Ting Fan. On the L^1 convergence and L^1 approximation of Fourier sums. (Chinese. English summary) (Not in MR)

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- Bloomfield, Peter. On series representations for linear predictors. **86j:60100**
- Bray, William O. (with Stanojević, Časlav V.) Tauberian L^1 -convergence classes of Fourier series. II. **86h:42016**
- Chen, Guang Xiao (with He, Zu Qi) On Abel summability of Fourier series on unitary symplectic groups. (Chinese) **86h:43010**
- Dabrowski, Romuald. Probability measure representation of norms associated with the notion of entropy. **86e:46020**

He, Zu Qi See Chen, Guang Xiao, 86h:43010

Komornik, Vilmos Sur l'équiconvergence des séries orthogonales et biorthogonales correspondant aux fonctions propres des opérateurs différentiels linéaires. (English summary) [On the equiconvergence of orthonormal and biorthonormal series corresponding to the eigenfunctions of linear differential operators] 86a:42034

Stanojević, Časlav V. See Bray, William O., 86h:42016

Waterman, Daniel Change-of-variable invariant classes of functions and convergence of Fourier series. 86m:26008

42A24 Summability of Fourier and trigonometric series

Bellinskii, E. S. On the summability of Fourier series with the method of lacunary arithmetic means. (Russian summary) 86i:42005

Bugrov, Ya. S. Linear means of Fourier series and integrals and the rate of their convergence. (Russian) 86h:42011

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Chandra, Prem (with Gupta, Ram Ratan) On the $[N, p_1]$ -summability factors for Fourier series. 86j:42009

Dikahit, G. D. On summability of Fourier series at a point. 86a:42010

Dopierala, Zenon (with Rempulka, Lucyna) Application of the Abel means of trigonometric Fourier series for differential equations of the Laplace type. 86g:42011

Dressler, B. (with Hrach, R.) Summability of Fourier expansions in terms of disc polynomials. 86a:42011

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Górowski, Jan (with Wachnicki, Eugeniusz) On some method of summability of the Fourier series. (Polish summary) 86m:42010

Govil, N. K. (with Sahney, B. N.) On a sequence of Fourier coefficients. 86i:42006

Gupta, Ram Ratan See Chandra, Prem, 86j:42009

Hrach, R. See Dressler, B., 86a:42011

Kanno, Kōei Absolute Riesz summability factors of Fourier series. II. 86c:42005

Kathal, P. D. (with Shukla, H. L.) A new criterion for Euler summability of Fourier series. (Hindi. English summary) 86a:42012

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Kasaryan, K. S. Summability and convergence of almost everywhere generalized Fourier and Fourier-Haar series. (Russian. English and Armenian summaries) 86m:42011

Khan, Husoor H. A note on a theorem of Izumi. 86j:42010

Leladse, D. V. Conjugate trigonometric series. (Russian. English and Georgian summaries) 86c:42013

Summation of Fourier trigonometric series. (Russian. English and Georgian summaries) 86h:42012

Mishra, K. N. (with Srivastava, R. S. L.) On the uniform Nörlund summability of Fourier series. 86c:42014

Muglov, A. G. Summability of conjugate Fourier-Cesàro-Denjoy trigonometric series and the existence of a conjugate function. (Russian. English and Azerbaijani summaries) 86c:42006

Rempulka, Lucyna See Dopierala, Zenon, 86g:42011

Rhoades, B. E. Generalized harmonic summability of a sequence of Fourier coefficients. 86c:42015

Sahney, B. N. See Govil, N. K., 86i:42006

Shukla, H. L. (with Kathal, P. D.) Taylor-Cesàro product summability of the derived Fourier series. 86h:42013

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Slaković, Semiha The asymptotic behavior of D -summability of derived multiple Fourier series. (Serbo-Croatian. English summary) 86h:42014

Srivastava, R. S. L. See Mishra, K. N., 86c:42014

Tripathi, L. M. (with Tripathi, V. N.) On K^{λ} -summability of Fourier series. 86m:42012

Tripathi, V. N. See Tripathi, L. M., 86m:42012

Wachnicki, Eugeniusz See Górowski, Jan, 86m:42010

Wang, Kun Yang Approximation and absolute summation for periodic functions of two variables by Cesàro means of Marcinkiewicz type. (Chinese) 86b:42005

Xu, Qian Fang On an inequality of Varshney. (Chinese. English summary) 86b:42006

secondary classifications (42A24)

Andrienko, V. A. (with G'nevskaya, L. V.) The rate of summability of orthogonal series by Cesàro means. (Russian. English and Bulgarian summaries) 86d:42022

Das, Gokulananda (with Mohapatra, P. C.) On a generalized harmonic-Cesàro method of summation and its application to Fourier series. 86j:40011

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Gafarov, A. See Israllova, M. M., 86k:42020

Górowski, Jan The Dirichlet problem for the elliptic domain and summability of the Fourier series. 86b:31006

G'nevskaya, L. V. See Andrienko, V. A., 86d:42022

Hsiang, Wen-Hang On the degrees of convergence of Abel and conjugate-Abel sums. 86k:42012

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Kant, Vishnu See Sinha, Rajendra, 86b:46062

Longman, I. M. The summation of power series and Fourier series. 86f:65021

Mikolás, M. Integro-differential operators and theory of summation. 86c:42007

Mohapatra, P. C. See Das, Gokulananda, 86j:40011

Pokalo, A. K. Multipliers in a Banach space with Cesàro structure and compact classes of elements generated by them. (Russian) 86m:42021

Pych-Taberska, Paulina Pointwise approximation by Cesàro means of Fourier series and conjugate series. (Russian summary) 86g:42008

Shi, Xian Liang (with Wang, Mei Qin) Saturation classes of Riesz means of subsequences of Fourier series. (Chinese) 86d:42003

Sinha, Rajendra (with Kant, Vishnu) Homogeneous Banach spaces of distributions. 86b:46062

Soni, K. (with Soni, R. P.) A note on summability and asymptotics. 86f:44003

Soni, R. P. See Soni, K., 86f:44003

Sunouchi, Gen-ichirō On the summability almost everywhere of the multiple Fourier series at the critical index. 86c:42024

Wang, Kun Yang $M(H, q)$ summability of double Fourier series and of their conjugate series. (Chinese) 86k:42022

(C, I) summability of multiple conjugate Fourier series. (Chinese) (Not in MR)

Wang, Mei Qin See Shi, Xian Liang, 86d:42003

Xie, Ting Fan On two problems of Leindler. 86a:42005

42A28 Absolute convergence, absolute summability

Artémiadis, Nicolas K. On the absolute convergence of Fourier series of distributions. 86g:42012

Chandra, Prem (with Yadava, Virendra Singh) On the absolute Riesz summability of series associated with Fourier series. 86h:42015

Chanturiya, Z. A. Absolute convergence of Fourier series of the class $V(v)$. (Russian. English and Georgian summaries) 86d:42008

Multipliers of absolute convergence. (Russian. English and Georgian summaries) 86j:42011

Dikahit, G. D. (with Rees, C. S.) Absolute Riesz summability of Fourier series. II. 86b:42007

On summability $[R, \exp(u^{\delta}), \gamma]$ of Fourier series. 86j:42012

Dzhafarov, Ali S. (with Mamedov, G. A.) Absolute convergence of Fourier series of almost periodic Besicovitch functions with a bounded spectrum. (Russian. English and Azerbaijani summaries) 86a:42013

Mamedov, G. A. See Dzhafarov, Ali S., 86a:42013

Mikolás, M. Integro-differential operators and theory of summation. 86c:42007

Mishra, K. N. (with Srivastava, R. S. L.) On the strong matrix summability of derived Fourier series. 86j:42013

Okuyama, Yasuo Note on the absolute convergence of Fourier series of a function of Wiener's class V_r . 86k:42015

Rees, C. S. See Dikahit, G. D., 86b:42007

Srivastava, R. S. L. See Mishra, K. N., 86j:42013

Yadava, Virendra Singh See Chandra, Prem, 86h:42015

secondary classifications (42A28)

Mérics, F. On the $|C, \alpha > \frac{1}{2}, \beta > \frac{1}{2}|$ -summability of double orthogonal series. 86m:42018

Patel, N. V. (with Shah, V. M.) A note on the absolute convergence of lacunary Fourier series. 86d:42012

Shah, V. M. See Patel, N. V., 86d:42012

Singh, L. B. On absolute summability of Fourier-Jacobi series. 86g:42046

Wang, Kun Yang Approximation and absolute summation for periodic functions of two variables by Cesàro means of Marcinkiewicz type. (Chinese) 86b:42005

42A32 Trigonometric series of special types (positive coefficients, monotonic coefficients, etc.)

Askey, Richard Remarks on the paper: "A class of positive trigonometric sums" [Math. Ann. 268 (1984), no. 1, 91-122; MR 86c:42016a] by G. Brown and E. Hewitt. 86c:42016b

Berisa, Muharem Č. Necessary conditions for Fourier coefficients of periodic functions to belong to $B(p, \theta, k, \alpha)$ -classes of Besov type. (Russian) 86d:42009

Bray, William O. (with Stanojević, Časlav V.) Tauberian L^1 -convergence classes of Fourier series. II. 86h:42016

Brown, Gavin (with Hewitt, Edwin) A class of positive trigonometric sums. 86c:42016a

See also Askey, Richard, 86c:42016b

Chan, Ling Yau On Fourier series with nonnegative coefficients and two problems of R. P. Boas. 86m:42013

Hewitt, Edwin See Brown, Gavin, 86c:42016a and Askey, Richard, 86c:42016b

Meřnik, Yu. I. Representation of regular functions in the form of a sum of periodic functions. (Russian) 86g:42013

Stanojević, Časlav V. See Bray, William O., 86h:42016

secondary classifications (42A32)

Bor, Hüseyin Integrability of Rees-Stanojević sums. 86c:26010

Bray, William O. (with Stanojević, Vera B.) On the integrability of complex trigonometric series. 86d:42006

Logli, Augusto The positive part of a Fourier transform. 86c:42017

Oliveira-Pinto, F. Experiments with a class of generalized trigonometric polynomials. 86m:42002

Stanojević, Vera B. See Bray, William O., 86d:42006

Vukolova, T. M. Some properties of trigonometric series with monotonic coefficients. (Russian) 86c:42008

42A38 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type

Gamidov, A. A. A stable method for convergence of Fourier integrals with a perturbed integrand. (Russian. English and Azerbaijani summaries) 86h:42017

Gevorgyan, G. G. Sets of relative uniqueness for Fourier integrals. (Russian. Armenian summary) 86f:42002

Hu, Zheng See Kou, Wei Dong, 86g:42014

Kheladse, Sh. V. Convergence of Fourier integrals almost everywhere and in the sense of the L metric. (Russian) 86d:42010

Kim, Jongaik (with Kim, Pilho) Asymptotic behaviors of singular integrals. 86b:42008

Kim, Pilho See Kim, Jongaik, 86b:42008

Korseniovski, Andrzej On the best constant in the Hausdorff-Young inequality. **86h:42018**

Kou, Wei Dong (with Hu, Zheng) CH transform. **86g:42014**

Lenyuk, M. P. Hybrid integral transformations (Fourier-Bessel, Bessel-Fourier, Bessel-Bessel, Weber-Fourier and Weber-Bessel). (Russian) **86m:42014**

Logli, Augusto The positive part of a Fourier transform. **86e:42017**

Mhaskar, H. N. On the smoothness of Fourier transforms. **86c:42008**

Mikos, Miroslawa On the convergence of some integrals involving the generalized Fourier transforms. **86m:42015**

Mouroutsos, S. G. See Paraskevopoulos, P. N. et al. **86g:42015**

Müller, Detlef Estimates of one-dimensional oscillatory integrals. **86f:42003**

Paraskevopoulos, P. N. (with Sparis, P. D.; Mouroutsos, S. G.) The Fourier series operational matrix of integration. **86g:42015**

Pathak, Ashutosh Approximation of a function by its Fourier integral. **86b:42009**

Poulkou, Anthippi Weak transforms and their limits. **86m:42016**

Price, John F. (with Racki, Paul C.) Local uncertainty inequalities for Fourier series. **86e:42018**

Racki, Paul C. See Price, John F. **86e:42018**

Saga, Nobuhito On a relationship between the delta function and the two-dimensional Fourier transform. (Not in MR)

Sparis, P. D. See Paraskevopoulos, P. N. et al. **86g:42015**

Walsh, T. Minimal smoothness for a bound on the Fourier transform of a surface measure. **86b:42010**

Wang, Hual Ch'uan On the Fourier transforms. **86h:42019**

Wu, Zhao Ji Uniform convergence of spherical Bochner-Riesz means of conjugate multiple Fourier integrals. (Chinese. English summary) **86c:42009**

Zhang, Yu Jie Generalized Fourier transforms and decay factors. (Chinese) (Not in MR)

secondary classifications (42A38)

Beth, Thomas ★ Verfahren der schnellen Fourier-Transformation. (German) [Method of the fast Fourier transform] **86g:65002**

Calderón, Alberto-P. On the Radon transform and some of its generalizations. **86h:44002**

Grünbaum, F. Alberto An inverse problem related to the Bloch equations and a nonlinear Fourier transform. **86k:34002**

Harms, Lothar Eine Gegenüberstellung der verschiedenen Algorithmen zur schnellen Fourier-Transformation. [A comparison of different algorithms for the fast Fourier transform] **86i:94015b**

Heywood, P. (with Rooney, P. G.) A weighted norm inequality for the Hankel transformation. **86f:44008**

Kahane, Jean-Pierre Une preuve rapide du théorème de Beurling et Helson sur les endomorphismes de l'algèbre $l^1(\mathbb{Z})$. [A quick proof of the Beurling-Helson theorem on the endomorphisms of the algebra $l^1(\mathbb{Z})$] **86a:43006**

Krylov, V. I. (with Skoblya, N. S.) ★ A handbook of methods of approximate Fourier transformation and inversion of the Laplace transformation. **86h:44001**

Lenyuk, M. P. A class of continuous hybrid integral transformations. (Russian. English summary) **86h:44004**

Mikaelyan, G. V. Fourier transform associated with functions meromorphic in the half plane. (Russian. English and Armenian summaries) **86j:30042**

Prather, Carl The oscillation of derivatives: the Bernstein problem for Fourier integrals. **86j:42036**

Rooney, P. G. See Heywood, P. **86f:44008**

Skoblya, N. S. See Krylov, V. I. **86h:44001**

Soni, K. (with Soni, R. P.) A note on summability and asymptotics. **86f:44003**

Soni, R. P. See Soni, K. **86f:44003**

Tollmieri, R. The algebra of the finite Fourier transform and coding theory. **86e:94024**

Weniger, E. Joachim Weakly convergent expansions of a plane wave and their use in Fourier integrals. **86k:46050**

(Yankovskii, G.) See Krylov, V. I. **86h:44001**

42A45 Multipliers

secondary classifications (42A45)

Bloom, Walter R. (with Sussich, Joseph F.) Saturation on locally compact abelian groups. **86g:41037**

Dressler, B. (with Hrach, R.) Summability of Fourier expansions in terms of disc polynomials. **86a:42011**

Hrach, R. See Dressler, B. **86a:42011**

Pokalo, A. K. Multipliers in a Banach space with Cesàro structure and compact classes of elements generated by them. (Russian) **86m:42021**

Steinberg, A. M. On translation invariant operators. (Russian) **86d:47037**

Sussich, Joseph F. See Bloom, Walter R. **86g:41037**

Verbitskii, I. É. Multipliers in spaces with "fractional" norms, and inner functions. (Russian) **86k:30041**

42A50 Conjugate functions, conjugate series, singular integrals

Brennerman, M. Kh. (with Kats, B. A.) Estimation of the norm of a singular integral and its application in certain boundary value problems. (Russian) **86j:42014**

Cherkasov, A. I. Some properties of a singular integral. (Russian. English and Azerbaijani summaries) **86a:42014**

Coifman, R. R. (with Meyer, Y.) L'analyse harmonique non linéaire. [Nonlinear harmonic analysis] **86b:42011**

Danilov, E. A. Factorization of a positive function on a contour of unbounded turning. (Russian) (Not in MR)

D'yachkov, A. M. Nontangential convergence at a point of a class of singular integrals. (Russian) **86g:42016**

Falaleev, L. P. Exactness of representation of conjugate functions by Cesàro sums. (Russian) **86j:42015**

Fominykh, M. A. Transformation of BMO functions. (Russian) **86h:42020**

Gogoladse, L. D. On the existence of conjugate functions of several variables. (Russian. English and Georgian summaries) **86f:42004**

Gurteleashvili, R. I. On a conjugate function. (Russian. English and Georgian summaries) **86d:42011**

Han, Yong Sheng Weighted norm inequalities for commutators of singular integrals. (Chinese. English summary) **86c:42010**

Kats, B. A. See Brennerman, M. Kh. **86j:42014**

Kolyada, V. I. Discontinuity of a conjugate function. (Russian) **86f:42005**

Leckband, M. A. Structure results on the maximal Hilbert transform and two-weight norm inequalities. **86k:42016**

Mamedkhanov, Dzh. I. (with Salaev, V. V.) Local properties of singular integrals. (Russian) **86f:42006**

Meyer, Y. See Coifman, R. R. **86b:42011**

Mural, Takafumi Singular integral operators of Calderón type and related operators on the energy spaces. **86j:42016**

Osolkov, K. I. Luzin's C-property for a conjugate function. (Russian) **86e:42019**

Rubin, B. S. One-dimensional representation, inversion and certain properties of Riesz potentials of radial functions. (Russian) **86a:42015**

Sadosky, Cora Some applications of majorized Toeplitz kernels. **86c:42011**

Salaev, V. V. See Mamedkhanov, Dzh. I. **86f:42006**

Yamamoto, Takanori On the generalization of the theorem of Helson and Szegő. **86e:42020**

Zhishashvili, L. V. Conjugate functions of several variables and multiple conjugate trigonometric series. (Russian) (Not in MR)

secondary classifications (42A50)

Aliev, I. A. See Maksudov, F. G. **86g:42031**

Arocena, Rodrigo (with Cotlar, Mischa) Continuous generalized Toeplitz kernels in \mathbb{R} . **86i:42007**

Bloom, Steven Boundedness of the maximal operator on weighted BMO. **86k:42030**

Carton-Lebrun, C. (with Fosset, M.) Moyennes et quotients de Taylor dans BMO. [Taylor means and quotients in BMO] **86f:42014**

Cotlar, Mischa See Arocena, Rodrigo. **86i:42007**

Fosset, M. See Carton-Lebrun, C. **86f:42014**

Govorov, N. V. (with Grushevskii, S. P.) Some metric properties of boundary values of functions analytic in the half-plane. (Russian) **86a:30052**

Grushevskii, S. P. See Govorov, N. V. **86a:30052**

Lu, Jian Ke Formulas of Bertrand-Poincaré type related to singular integrals of higher order. (Chinese. English summary) **86m:30045**

Maksudov, F. G. (with Aliev, I. A.) Smoothness properties of the symbol of a multidimensional singular integral generated by a generalized shift operator. (Russian) **86g:42031**

Neri, Umberto (with Vernier Piro, Stella) Weighted extensions of a theorem of Spanne and Stein. (Italian summary) **86a:42017**

Sallimov, T. S. The singular Cauchy integral in spaces L_p , $p \geq 1$. (Russian. English and Azerbaijani summaries) **86m:30047**

Vernier Piro, Stella See Neri, Umberto. **86a:42017**

42A55 Lacunary series of trigonometric and other functions; Riesz products

Benedicks, Michael The support of functions and distributions with a spectral gap. **86j:42017**

Brown, Gavin (with Moran, William; Tijdeman, R.) Riesz products are basic measures. **86b:42012**

Moran, William See Brown, Gavin et al. **86b:42012**

Patel, N. V. (with Shah, V. M.) A note on the absolute convergence of lacunary Fourier series. **86d:42012**

Shah, V. M. See Patel, N. V. **86d:42012**

Tijdeman, R. See Brown, Gavin et al. **86b:42012**

secondary classifications (42A55)

Berila, Muharem Č. (with Turku, H.; Rajović, M.) Fourier coefficients of a lacunary series of functions in the class $H(p, k, \varphi)$. (Serbo-Croatian. Russian summary) **86d:42004**

Biel, Ron Combinatorial dimension and certain norms in harmonic analysis. **86a:43009**

Bourgain, J. Propriétés de décomposition pour les ensembles de Sidon. (English summary) [Decomposition properties for Sidon sets] **86f:43007**

Sidon sets and Riesz products. **86h:43009**

Dressler, Robert E. (with Pigno, Louis) Small sum sets and the Faber gap condition. **86d:11015**

Giulini, Saverio Singular characters and their L^p norms on classical Lie groups. **86d:22010**

Pigno, Louis See Dressler, Robert E. **86d:11015**

Rajović, M. See Berila, Muharem Č. et al. **86d:42004**

Smith, Brent Two trigonometric designs: one-sided Riesz products and Littlewood products. **86h:42001**

Turku, H. See Berila, Muharem Č. et al. **86d:42004**

42A61 Probabilistic methods

secondary classifications (42A61)

Bouleau, N. (with Lamberton, Damien) Théorie de Littlewood-Paley et processus stables. (English summary) [Littlewood-Paley theory and stable processes] **86f:42012**

Kawata, Tatsuo Absolute convergence of Fourier series of periodic stochastic processes and its applications. **86i:60148**

Lamberton, Damien See Bouleau, N. **86f:42012**

Tirossi, Benedetto Random Fourier series and Gibbs measures. (Italian summary) **86h:60106**

42A63 Uniqueness of trigonometric expansions, uniqueness of Fourier expansions, Riemann theory, localization

Arutyunyan, F. G. Representation of functions from L^p , $0 \leq p < 1$ by trigonometric series with rapidly decreasing coefficients. (Russian. English and Armenian summaries) **86m:42017**

42A65 Completeness of sets of functions

Hwang, Jun Shung (with Lin, Kuo Tung) Extensions of Müntz-Szász theorem and applications. **86g:42017**

Lin, Kuo Tung See Hwang, Jun Shung, **86g:42017**

Lyubarskii, Yu. I. The system $\{e^{-\alpha \lambda_n t} \sin \lambda_n t\}_{n=1}^{\infty}$. (Russian) (Not in MR)

secondary classifications (42A65)

Doestanié, M. A sufficient condition for the system $\{e^{-\alpha \lambda_n t} \sin \lambda_n t\}_{n=1}^{\infty}$ not to be a basis in the space $L_2(0, \pi)$. (Russian. Serbo-Croatian summary) **86b:42032**

42A70 Trigonometric moment problems

secondary classifications (42A70)

Iokhvidov, I. S. Asymptotic behavior of certain sequences studied in the indefinite moment problem. (Russian) **86g:44008**

Sadosky, Cora Some applications of majorized Toeplitz kernels. **86c:42011**

42A75 Classical almost periodic functions, mean periodic functions [See also 43A60.]

Chojnacki, Wojciech An analogue of the argument theorem of Bohr and its application. **86b:42013**

Codeš, Paolo On the B^A almost periodic behaviour of certain arithmetical convolutions. **86c:42021**

Mukhopadhyay, S. N. See Pal, B. K., **86c:42022**

Pal, B. K. (with Mukhopadhyay, S. N.) Denjoy-Bochner almost periodic functions. **86c:42022**

Sarason, Donald Remotely almost periodic functions. **86b:42014**

Zaidman, S. \star Almost-periodic functions in abstract spaces. **86j:42018**

secondary classifications (42A75)

Burkill, H. (with Rennie, B. C.) Almost periodic generalized functions. **86b:46059**

Günster, Hans On the countability of the spectrum of weakly almost periodic functions. (Italian summary) **86m:43008**

Halvorsen, S. G. (with Mingarelli, A. B.) Propriétés oscillatoires de l'équation de Sturm-Liouville à coefficients presque périodiques. (English summary) [On the oscillation of almost-periodic Sturm-Liouville operators with an arbitrary coupling constant] **86c:34062**

Mingarelli, A. B. See Halvorsen, S. G., **86c:34062**

Rennie, B. C. See Burkill, H., **86b:46059**

Xia, Jing Bo Piecewise continuous almost periodic functions and mean motions. **86c:47048**

42A82 Positive definite functions

Arocena, Rodrigo (with Cotlar, Miacha) Continuous generalized Toeplitz kernels in \mathbb{R} . **86i:42007**

Cotlar, Miacha See Arocena, Rodrigo, **86i:42007**

Sasvári, Zoltán Einige Bemerkungen über die Fortsetzung positiv definiter Funktionen. (English and Russian summaries) [Some remarks on the extension of positive definite functions] **86h:42021**

secondary classifications (42A82)

(Ando, Tsuyoshi) See Katsnel'son, V. É., **86i:47048**

Katsnel'son, V. É. Continual analogues of the Hamburger-Nevanlinna theorem, and fundamental matrix inequalities of classical problems. IV. (Russian) **86b:30058**

\star Methods of J -theory in continuous interpolation problems of analysis. Part I. **86i:47048**

42A85 Convolution, factorization

Adomaitis, K. A property of the Hardy-Littlewood maximal function. (Russian. English and Lithuanian summaries) **86a:42016**

Madych, W. R. Limits of dilated convolution transforms. **86g:42018**

Neri, Umberto (with Vernier Piro, Stella) Weighted extensions of a theorem of Spanne and Stein. (Italian summary) **86a:42017**

Vernier Piro, Stella See Neri, Umberto, **86a:42017**

secondary classifications (42A85)

Kaufman, Robert P. On Bernoulli convolutions. **86c:28019**

Ostrovskii, I. V. Support of a convolution of finite measures, and measures determined uniquely by the restriction to a half-line. (Russian. English summary) **86c:28019**

42A99 None of the above, but in this section

secondary classifications (42A99)

Podkorytov, A. N. Intermediate rates of growth of Lebesgue constants. (Russian. English summary) **86k:26016**

Pourahmadi, Mohsen The Helson-Sarason-Szegő theorem and the Abel summability of the series for the predictor. **86b:60073**

42Bxx Fourier analysis in several variables

42B05 Fourier series and coefficients

Ashurov, R. R. Conditions for the localization of multiple trigonometric Fourier series. (Russian) **86k:42017**

Bekauri, G. Sh. Some approximate properties of Riesz spherical means of multiple Fourier series and integrals. (Russian. English and Georgian summaries) **86j:42019**

Bloshanskii, I. L. Maximum sets of convergence and unbounded divergence of multiple Fourier series of functions in L_1 , equal to zero on a prescribed set. (Russian) **86k:42018**

Two tests for weak generalized localization for multiple trigonometric Fourier series of functions from L_p , $p \geq 1$. (Russian) **86g:42019**

D'yachkov, A. M. Summability of differentiated multiple Fourier series by Bochner-Riesz means. (Russian) **86g:42020**

Gafarov, A. See Israllova, M. M., **86k:42020**

Gogoladze, L. D. The existence of conjugate functions of several variables. (Russian) **86h:42022**

Summation of multiple trigonometric Fourier series by linear methods. (Russian. English and Georgian summaries) **86d:42013**

Golubov, B. I. Absolute convergence of multiple Fourier series. (Russian) **86k:42019**

Ivanov, V. I. Representation of measurable functions by multiple trigonometric series. (Russian) **86c:42023**

Israllova, M. M. (with Gafarov, A.) Rate of summability by the Cesàro method of multiple Fourier series and series conjugate to them. (Russian. Tajiki summary) **86k:42020**

Khocholava, V. V. Localization in the weak sense for Fourier-Laplace series on a sphere $S^3 \subset \mathbb{R}^4$. (Russian. English and Georgian summaries) **86h:42023**

Kojima, Michitaka Conjugate functions of several variables. **86f:42007**

Kuratsubo, Shigehiko On majorants for the partial sums of multiple trigonometric series. **86i:42008**

Lekishvili, M. M. Exponentially integrable conjugate functions of several variables. (Russian. English and Georgian summaries) **86h:42024**

Leladze, D. V. Conjugate trigonometric series. (Russian. English and Georgian summaries) **86h:42025**

Móricz, F. (with Tandori, K.) On the a.e. convergence of multiple orthogonal series. II. Unrestricted convergence of the rectangular partial sums. **86k:42021**

On the $|C, \alpha > \frac{1}{2}, \beta > \frac{1}{2}|$ -summability of double orthogonal series. **86m:42018**

Patadia, J. R. Local theorems for the absolute convergence of multiple lacunary Fourier series. **86d:42014**

Rubio de Francia, José Luis Convergence of Fourier series of infinitely many variables. (Spanish. English summary) (See **86g:00012b**)

Rzsev, S. F. Generalization of the Weierstrass theorem on a sphere. (Russian) **86k:42028**

Sunouchi, Gen-ichirō On the summability almost everywhere of the multiple Fourier series at the critical index. **86c:42024**

Tandori, K. See Móricz, F., **86k:42021**

Telyakovskii, S. A. Conditions for integrability of multiple trigonometric series. (Russian) **86b:42015**

Ugulava, D. K. Some methods of summation of multiple integrals and Fourier series. (Russian) **86a:42018**

Ustina, F. Lebesgue constants for double Hausdorff means. **86h:42027**

Vignati, Marco Nonisotropic moduli of smoothness. (Italian summary) **86c:42025**

Wang, Kun Yang $M(H, q)$ summability of double Fourier series and of their conjugate series. (Chinese) **86k:42023**

(C, I) summability of multiple conjugate Fourier series. (Chinese) (Not in MR)

(C, I) summability of multiple conjugate Fourier series. **86h:42028**

Zhishashvili, L. V. Summation of multiple Fourier series. (Russian. English and Georgian summaries) **86h:42029**

secondary classifications (42B05)

Ashurov, R. R. Summability almost everywhere of Fourier series from L_p in eigenfunctions. (Russian) **86g:35148**

Asymptotic estimation of the spectral function of an elliptic operator. (Russian) **86g:35149**

Bloshanskii, I. L. Divergence almost everywhere of a Fourier series on a given set and convergence to zero outside of it. (Russian) **86h:42009**

Murray, Margaret A. M. Multilinear convolutions and transference. **86c:42003**

Prentini, Elena A note on L^p multipliers given by the characteristic function of unbounded polygonal regions in the plane. **86c:42015**

Variants of the maximal double Hilbert transform. **86j:42026**

Zaidman, S. \star Almost-periodic functions in abstract spaces. **86j:42018**

Zastavnyi, V. P. The set of zeros of the Fourier transform of a measure and summation of double Fourier series by methods of Bernstein-Rogosinski type. (Russian) **86g:42024**

Zhishashvili, L. V. Conjugate functions of several variables and multiple conjugate trigonometric series. (Russian) (Not in MR)

42B10 Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type

Adams, Ernst On weighted norm inequalities for the Riesz transforms of functions with vanishing moments. **86d:42015**

Barakat, Richard (with Newsam, G. N.) Necessary conditions for a unique solution to two-dimensional phase recovery. **86a:42019**

Bastia, A. I. The generalized principle of localization for an N -multiple Fourier integral. (Russian) **86b:42016**

Beylkin, Gregory Iterated spherical means in linearized inverse problems. **86d:42016**

Bhise, V. M. (with Dighe, Madhavi) On inequalities for Fourier type integral operators. **86g:42021**

- Carbery, Anthony A weighted inequality for the maximal Bochner-Riesz operator on \mathbb{R}^2 . 86d:42017
- Córdoba, A. Some problems of harmonic analysis. (Spanish. English summary) (See 86g:00012b)
- Dighe, Madhavi See Bhise, V. M., 86g:42021
- Drury, Stephen W. Restrictions of Fourier transforms to curves. 86e:42026
- Hasegawa, Takuichi The semi-Fourier transform. 86g:42022
- Heinig, Hans P. Estimates for operators in mixed weighted L^p -spaces. 86j:42020
- Newsam, G. N. See Barakat, Richard, 86a:42019
- Okikolu, G. O. Transforms involving functions of orthogonally projected variables. 86m:42019
- Ostrogorski, Tatjana Asymptotic behaviour of Fourier transforms in \mathbb{R}^n . 86g:42023
- Podkorytov, A. N. Linear means of spherical Fourier sums. (Russian) 86c:42012
- Taberner, Bartolome Barcelo On the restriction of the Fourier transform to a conical surface. 86k:42023
- Vu Kim Tuan Integral transformations of Fourier type in a new class of functions. (Russian. English summary) 86k:42024
- Wu, Zhao Ji Spherical Bochner-Riesz means of conjugate multiple Fourier integrals. (Chinese. English summary) 86c:42013
- Zastavnyi, V. P. The set of zeros of the Fourier transform of a measure and summation of double Fourier series by methods of Bernstein-Rogosinski type. (Russian) 86g:42024

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- Benedicks, Michael On Fourier transforms of functions supported on sets of finite Lebesgue measure. 86f:43006
- Danikas, Nikolaos (with Nestoridis, V.) A property of H^1 functions. 86k:30042
- Dym, Harry (with Jacob, Andrei) Positive definite extensions, canonical equations and inverse problems. 86g:34025
- Fawcett, John Inversion of n -dimensional spherical averages. 86k:44005
- Jacob, Andrei See Dym, Harry, 86g:34025
- Kaufman, Robert P. On some operators in C_0 . 86j:47042
- Mastylo, Mieczyslaw On Fourier integral transformation in space \mathcal{D}'_M . 86k:46063
- Mouroutsos, S. G. See Paraskevopoulos, P. N. et al., 86g:42015
- Nestoridis, V. See Danikas, Nikolaos, 86k:30042
- Paraskevopoulos, P. N. (with Sparis, P. D.; Mouroutsos, S. G.) The Fourier series operational matrix of integration. 86g:42015
- Salimov, Ya. Sh. Uniform equiconvergence of the Riesz means of spectral expansions with respect to an N -multiple system of exponentials in an N -multiple Fourier integral. (Russian) 86i:35110
- Sparis, P. D. See Paraskevopoulos, P. N. et al., 86g:42015
- Temme, N. M. (with Zimmerman, J. T. F.) ★ On the theory of topographic vorticity production by tidal currents. 86f:76019
- Wang, Huai Ch'üan On the Fourier transforms. 86h:42019
- Zimmerman, J. T. F. See Temme, N. M., 86f:76019

42B15 Multipliers

- Bozhinov, Nikola S. Isomorphical representations of multipliers of the smooth $\bar{\partial}$ -convolution. (Bulgarian summary) 86k:42025
- Carbery, Anthony A note on the "hyperbolic" Bochner-Riesz means. 86a:42020
- Córdoba, A. An integral inequality for the disc multiplier. 86c:42014
- Dappa, H. (with Trebela, W.) On L^1 -criteria for quasiradial Fourier multipliers with applications to some anisotropic function spaces. (Russian summary) 86g:42025
- (with Luers, Hajo) A Hörmander type criterion for quasiradial Fourier multipliers. 86m:42020
- Jevtić, M. Multipliers of $A_p^1(\varphi)$ and $A_{\infty}^1(\varphi)$ spaces when $1 < p < \infty$. (Serbo-Croatian summary) 86k:42026
- Lippus, J. On convex multipliers of convergence of some classes of bivariate Fourier series. (Russian summary) 86g:42026
- Luers, Hajo See Dappa, H., 86m:42020
- Pan, Yi Biao Disk multipliers of weighted spaces and Littlewood-Paley theorems. (Chinese) (Not in MR)
- Disc multiplier and Littlewood-Paley theorem on weighted norm spaces. (Not in MR)
- Pokalo, A. K. Multipliers in a Banach space with Cesàro structure and compact classes of elements generated by them. (Russian) 86m:42021
- Prestini, Elena A note on L^p multipliers given by the characteristic function of unbounded polygonal regions in the plane. 86c:42015
- Multipliers with singularities along a curve in \mathbb{R}^n . 86f:42008
- Rubio de Francia, José Luis Estimates for some square functions of Littlewood-Paley type. 86d:42018
- Tchamitchian, Philippe Généralisation des algèbres de Beurling. (English summary) [Generalization of Beurling algebras] 86d:42019
- Tomas, P. A. See Zhang, Yang Chun, 86g:42027
- Trebela, W. See Dappa, H., 86g:42025
- Zhang, Yang Chun (with Tomas, P. A.) Multipliers along curves. 86g:42027

secondary classifications (42B15)

- Baernstein, Albert, II (with Sawyer, E.) Embedding and multiplier theorems for $H^p(\mathbb{R}^n)$. 86g:42036
- Chu, Ch'i Ping Some properties of potential algebras. 86k:46045
- Dickmeis, W. (with Nessel, R. J.; van Wickeren, E.) Steckin-type estimates for locally divisible multipliers in Banach spaces. 86a:41033
- El Kohen, A. On the Riesz-transforms along surfaces in \mathbb{R}^3 . 86m:42023
- Kryuchkov, V. S. Differential properties of the symbol of the singular integral Calderón-Zygmund operator. (Russian) 86m:42024
- Marshall, Bernard L^p - L^q multipliers of anisotropic wave equations. 86c:35097
- Meaney, Christopher Radial functions and invariant convolution operators. 86b:43011

- Nessel, R. J. See Dickmeis, W. et al., 86a:41033
- Okikolu, G. O. Semigroups of operators expressible as multipliers of Fourier transform multipliers. 86h:47064a
- L^p -estimates for fractional integrals associated with semigroups of operators. 86h:47064b
- Derivative-type estimates for operators defined in terms of multiplicative semigroups. 86h:47064c
- Operator multiplier representations of semigroups generated by linear differential operators in Euclidean spaces. 86m:47064
- Podkorytov, A. N. Linear means of spherical Fourier sums. (Russian) 86c:42012
- Sawyer, E. See Baernstein, Albert, II, 86g:42036
- Shtenberg, A. M. On translation invariant operators. (Russian) 86d:47037
- Stein, Elias M. Some oscillatory integrals and their applications. (See 86j:00010)
- van Wickeren, E. See Dickmeis, W. et al., 86a:41033

42B20 Singular integrals (Calderón-Zygmund, etc.)

- Aimar, Hugo Singular integrals and approximate identities on spaces of homogeneous type. 86m:42022
- Aliev, I. A. See Maksudov, F. G., 86g:42031
- Bennett, Colin (with DeVore, R.; Sharpley, R.) Maximal singular integrals on L^∞ . 86b:42017
- Bordin, Benjamin H^p estimates for weakly strongly singular integral operators on spaces of homogeneous type. 86k:42027
- Bui Doan Khanh Sur les commutateurs de Calderón multiples. (English summary) [On multiple Calderón commutators] 86g:42028
- Calderón, Alberto-P. (with Capri, Osvaldo N.) On the convergence in L^1 of singular integrals. 86g:42029
- Capri, Osvaldo N. See Calderón, Alberto-P., 86g:42029
- Chen, Tian Ping Almost everywhere convergence of a class of singular integrals. (Chinese. English summary) 86e:42027
- DeVore, R. See Bennett, Colin et al., 86b:42017
- Duduchava, R. V. Multidimensional singular integral equations. Preliminary theorems. (Russian. English and Georgian summaries) 86b:42018
- Duoandikoetxea, Javier (with Rubio de Francia, José Luis) Estimations indépendantes de la dimension pour les transformées de Riesz. (English summary) [Estimates for Riesz transforms independent of the dimension] 86e:42028
- El Kohen, A. On the Riesz-transforms along surfaces in \mathbb{R}^3 . 86m:42023
- Frasier, Michael Subspaces of $BMO(\mathbb{R}^n)$. 86j:42021
- Gadzhiev, A. D. (with Rustamov, Kh. P.) Equivalent norming in Besov spaces on a sphere and properties of the symbol of a multidimensional singular integral. (Russian) 86e:42029
- He, Wen Hua Singular integrals and singular integral equations on the complex hypersphere. (Chinese. English summary) 86d:42020
- Heinig, Hans P. Weighted norm inequalities for classes of operators. 86c:42016
- Kryuchkov, V. S. Differential properties of the symbol of the singular integral Calderón-Zygmund operator. (Russian) 86m:42024
- Lemarie, Pierre Gilles ★ Algèbres d'opérateurs et semi-groupes de Poisson sur un espace de nature homogène. (French) [Operator algebras and Poisson semigroups on a space of homogeneous type] 86g:42030
- Lu, Shan Zhen On block decomposition of functions. 86j:42022
- Maksudov, F. G. (with Aliev, I. A.) Smoothness properties of the symbol of a multidimensional singular integral generated by a generalized shift operator. (Russian) 86g:42031
- Meyer, Y. Real analysis and operator theory. 86m:42025
- Murray, Margaret A. M. The Cauchy integral, Calderón commutators, and conjugations of singular integrals in \mathbb{R}^n . 86f:42009
- Okawa, Takio Deux théorèmes fondamentaux dans les transformations Hilbertiennes. [Two fundamental theorems in Hilbert transforms] 86j:42023
- Okikolu, G. O. L^p -estimates for integral operators with singular kernels. 86m:42026
- Pavlov, P. M. (with Samko, S. G.) Description of spaces $L_p^2(S_{n-1})$ in terms of spherical hypersingular integrals. (Russian) 86a:42021
- Phong, D. H. (with Stein, Elias M.) Singular integrals related to the Radon transform and boundary value problems. 86j:42024
- Rubio de Francia, José Luis See Duoandikoetxea, Javier, 86e:42028
- Rustamov, Kh. P. See Gadzhiev, A. D., 86e:42029
- Salimov, T. S. A singular Cauchy integral in H_α spaces. (Russian) 86h:42030
- Samko, S. G. See Pavlov, P. M., 86a:42021
- Sharpley, R. See Bennett, Colin et al., 86b:42017
- Stein, Elias M. Some oscillatory integrals and their applications. (See 86j:00010)
- See also Phong, D. H., 86j:42024
- Stokolos, A. M. An inequality for equimeasurable rearrangements and its application in the theory of differentiation of integrals. (Russian summary) 86a:42022
- Sunouchi, Gen-ichirō On the functions of Littlewood-Paley and Marcinkiewicz. 86k:42028
- Torres Hernández, José Luis ★ Integrales singulares vectoriales. (Spanish) [Singular vector integrals] 86h:42031
- Treil, S. R. An operator approach to weighted estimates of singular integrals. (Russian. English summary) 86g:42032
- Wallas, Magdalena Bounds for oscillatory integrals and L^2 -theory of the corresponding singular integrals. 86g:42033
- Yabuta, Kōzō Continuity of the mean values of BMO functions and Calderón-Zygmund properties of certain singular integrals. 86d:42021a
- Correction and remark to: "Continuity of the mean values of BMO functions and Calderón-Zygmund properties of certain singular integrals". 86d:42021b
- Calderón-Zygmund operators and pseudodifferential operators. 86k:42029

secondary classifications (42B20)

- Adams, Ernst On weighted norm inequalities for the Riesz transforms of functions with vanishing moments. 86d:42015

- Bourgain, J. Extension of a result of Benedek, Calderón and Panzone. **86a:47023**
- Cowling, Michael (with Mauceri, Giancarlo) Inequalities for some maximal functions. I. **86a:42023**
- D'yachkov, A. M. Nontangential convergence at a point of a class of singular integrals. (Russian) **86g:42016**
- El Kohen, A. A hyperbolic problem. **86h:35074**
- Gamble, A. (with Janas, Jan) Some relations between Toeplitz and singular integral operators on odd spheres. **86b:47047**
- Gashev, A. Some properties of an integral of Martinelli-Bochner type with continuous density. (Russian) **86m:32009**
- Janas, Jan See Gamble, A., **86b:47047**
- Kokilashvili, V. M. Singular integral operators in weighted spaces. **86a:42025**
- Mauceri, Giancarlo See Cowling, Michael, **86a:42023**
- Müller, Detlef Twisted convolutions with Calderón-Zygmund kernels. **86b:43020**
- Murray, Margaret A. M. Commutators with fractional differentiation and BMO Sobolev spaces. **86c:47042**
- Qian, Tao Commutators of homogeneous multiplier operators. **86m:47078**
- Rhoades, B. E. Norm and spectral properties of some weighted mean operators. **86j:47074**
- Rochberg, Richard (with Weiss, Guido) Derivatives of analytic families of Banach spaces. **86a:46099**
- Tomčič, Milica Best angular approximation and angular approximation of singular integrals. (Russian. Serbo-Croatian summary) **86c:42007**
- Wainger, Stephen On certain aspects of differentiation theory. **86h:42037**
- Weiss, Guido See Rochberg, Richard, **86a:46099**
- Zhong, Tong De Singular integrals and singular integral equations on the smooth boundary of an unbounded domain in the space C^n . (Chinese. English summary) **86b:32005**
- 42B25 Maximal functions, Littlewood-Paley theory**
- Bagby, Richard J. Maximal functions and rearrangements: some new proofs. **86f:42010** (with Kurtz, Douglas S.) Covering lemmas and the sharp function. **86f:42011**
- Bloom, Steven Boundedness of the maximal operator on weighted BMO. **86k:42030**
- Bouleau, N. (with Lambertson, Damien) Théorie de Littlewood-Paley et processus stables. (English summary) [Littlewood-Paley theory and stable processes] **86f:42012**
- Carleson, Hassé A new proof of the Hardy-Littlewood maximal theorem. **86g:42034** (with Wainger, Stephen) Maximal functions related to convex polygonal lines. **86m:42027** (with Sjögren, Peter; Strömberg, J.-O.) Multiparameter maximal functions along dilation-invariant hypersurfaces. **86k:42031**
- Christ, Michael Weighted norm inequalities and Schur's lemma. **86h:42032**
- Cowling, Michael (with Mauceri, Giancarlo) Inequalities for some maximal functions. I. **86a:42023**
- Delgado Pineda, Miguel Iterated Hardy-Littlewood (operator and Orlicz classes of maximal functions. (Spanish. English summary) (Not in MR)
- Deng, Dong Gao On a generalized Carleson inequality. **86h:42033**
- Ding, Yong Weighted Hardy inequalities. (Chinese. English summary) **86c:42030**
- Fava, Norberto A. Mapping properties of maximal operators. **86b:42019**
- Fefferman, Robert Some weighted norm inequalities for Córdoba's maximal function. **86a:42024**
- Feshchiv, I. Kh. Best uniform approximation of the class $W^{r+1}_p K$ by functions of the class $W^{r+1}_p K$. (Russian) **86k:42034**
- Franciosi, Michelangelo (with Moscarello, Gioconda) Higher integrability results. **86k:42032**
- Gabidashvili, M. A. See Kokilashvili, V. M., **86a:42031**
- García-Cuerva, José Extrapolation of weights. (Spanish. English summary) **86g:42035**
- Gogoladze, L. D. The Hardy-Littlewood maximal function. (Russian. English and Georgian summaries) **86b:42020**
- Gómez, Marcelo Enrique Note on the strong maximal operator. **86h:42035**
- A counterexample for the strong maximal operator. **86k:42033**
- Jawerth, Björn (with Torchinsky, Alberto) On a Hardy and Littlewood imbedding theorem. **86k:42035** (with Torchinsky, Alberto) Local sharp maximal functions. **86k:42034**
- Kaneko, Makoto (with Sunouchi, Gen-ichirō) On the Littlewood-Paley and Marcinkiewicz functions in higher dimensions. **86m:42028**
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- Moscarello, Gioconda See Franciosi, Michelangelo, **86k:42032**
- Muckenhoupt, Benjamin Weighted reverse weak type inequalities for the Hardy-Littlewood maximal function. **86j:42025**
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- Neugebauer, C. J. A double weight extrapolation theorem. **86f:42013**
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- Rachdi, Lakdar Tamech Fonctions de Littlewood-Paley pour certains opérateurs différentiels singuliers sur un intervalle. (English summary) [Littlewood-Paley functions for certain singular differential operators on an interval] **86c:42032**
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- Stein, Elias M. (with Strömberg, J.-O.) Behavior of maximal functions in \mathbb{R}^n for large n . **86a:42027** See also Nagel, Alexander, **86a:42026**
- Strömberg, J.-O. See Stein, Elias M., **86a:42027** and Carleson, Hassé et al., **86k:42031**
- Sunouchi, Gen-ichirō See Kaneko, Makoto, **86m:42028**
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- Torchinsky, Alberto Box maximal functions. **86k:42036** See also Jawerth, Björn, **86k:42034** and **86k:42035**
- Wainger, Stephen On certain aspects of differentiation theory. **86h:42037** See also Carleson, Hassé, **86m:42027**
- Wang, Si Lei Weighted norm inequalities for maximal functions. (Not in MR) Weighted inequalities for maximal functions. (Chinese) (Not in MR) Some properties of the Littlewood-Paley g -function. **86m:42030**
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- Adomaitis, K. A property of the Hardy-Littlewood maximal function. (Russian. English and Lithuanian summaries) **86a:42016**
- Altman, Hugo Singular integrals and approximate identities on spaces of homogeneous type. **86k:42022**
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- Gundy, R. F. (with Silverstein, Martin L.) The density of the area integral in \mathbb{R}^{n+1}_+ . **86c:26012**
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- Lohoué, Noël Fonction maximale sur les variétés de Cartan-Hadamard. (English summary) [Maximal function on Cartan-Hadamard manifolds] **86g:53046**
- Macías, Roberto A. See Harboure, Eleonor et al., **86a:26022**
- Madan, Shobha Une caractérisation de L^1 sur un groupe homogène par une fonction maximale. (English summary) [A maximal function characterization of L^1 on a homogeneous group] **86b:43004**
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- Martín-Reyes, F. J. See Atencia, E., **86f:28020**
- Meyer, Y. See Coifman, R. R. et al., **86i:46029**
- (Nair, M. Gopalan) See Watanabe, Shinzo, **86b:60113**
- Nishigaki, Sei-ichi Weighted norm inequalities for certain pseudodifferential operators. **86j:47073**
- Oikawa, Takio Deux théorèmes fondamentaux dans les transformations Hilbertiennes. [Two fundamental theorems in Hilbert transforms] **86j:42023**
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- Phong, D. H. (with Stein, Elias M.) Singular integrals related to the Radon transform and boundary value problems. **86j:42024**
- (Rajeev, B.) See Watanabe, Shinzo, **86b:60113**
- Ross, Kenneth A. See Ash, J. Marshall, **86b:43002**
- Rubio de Francia, José Luis A new technique in the theory of A_p weights. **86a:47028b** Estimates for some square functions of Littlewood-Paley type. **86d:42018** Factorization theory and A_p weights. **86a:47028a**
- Sato, Shuichi Lusin functions and nontangential maximal functions in the H^p theory on the product of upper half spaces. **86j:42027**
- Sawyer, E. See Kerman, R., **86m:35126**
- Schmeisser, H.-J. Maximal inequalities and Fourier multipliers for spaces with mixed quasnorms. Applications. (German and Russian summaries) **86d:46029**
- Segovia, Carlos See Harboure, Eleonor et al., **86a:26022**
- Shi, Xian Liang (with Torchinsky, Alberto) Local sharp maximal functions in spaces of homogeneous type. (Not in MR)
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- Stein, Elias M. See Coifman, R. R. et al., **86i:46029** and Phong, D. H., **86j:42024**
- Stokolos, A. M. An inequality for equimeasurable rearrangements and its application in the theory of differentiation of integrals. (Russian summary) **86a:42022**
- Sunouchi, Gen-ichirō On the functions of Littlewood-Paley and Marcinkiewicz. **86k:42028**
- Torchinsky, Alberto See Shi, Xian Liang (Not in MR)
- Watanabe, Shinzo ★ Lectures on stochastic differential equations and Malliavin calculus. **86b:60113**

42B30 H^p -spaces

- Baernstein, Albert, II (with Sawyer, E.) Embedding and multiplier theorems for $H^p(\mathbb{R}^n)$. **86g:42036**
- Carton-Lebrun, C. (with Fosset, M.) Moyennes et quotients de Taylor dans BMO. [Taylor means and quotients in BMO] **86f:42014**
An alternative proof of a property of the Radon transform on the Hardy space H^1 . **86g:42037**
- Chang, Sun-Yung A. (with Fefferman, Robert) Some recent developments in Fourier analysis and H^p -theory on product domains. **86g:42038**
- Colzani, Leonardo Approximation in Hardy spaces. **86h:42038**
- Danikas, Nikolaos Über die BMOA-Norm von $\log(1-z)$. [On the BMOA-norm of $\log(1-z)$] **86f:42015**
- Fefferman, Robert The atomic decomposition of H^1 in product spaces. **86e:42034**
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- Fosset, M. See Carton-Lebrun, C., **86f:42014**
- Gatto, Angel E. (with Gutiérrez, Cristian E.; Wheeden, Richard L.) Fractional integrals on weighted H^p spaces. **86k:42037**
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- Han, Yong Sheng On a theorem concerning Carleson measure and its applications. **86c:42017**
- Jones, Peter Wilcox Homeomorphisms of the line which preserve BMO. **86a:42028**
- McCall, James D. Mean growth, H^p spaces and subharmonic functions in the upper half-plane. **86g:42039**
- Sato, Shuichi Lusin functions and nontangential maximal functions in the H^p theory on the product of upper half spaces. **86j:42027**
- Sawyer, E. See Baernstein, Albert, II, **86g:42036**
- Smith, Wayne Stewart BMO(p) and Carleson measures. **86k:42038**
- Strömberg, J.-O. (with Wheeden, Richard L.) Fractional integrals on weighted H^p and L^p spaces. **86f:42016**
- Sundberg, Carl Truncations of BMO functions. **86a:42029**
- Uchiyama, Akihito The Fefferman-Stein decomposition of smooth functions and its application to $H^p(\mathbb{R}^n)$. **86j:42028**
- Wheeden, Richard L. See Strömberg, J.-O., **86f:42016** and Gatto, Angel E. et al., **86k:42037**
- Wilson, J. Michael On the atomic decomposition for Hardy spaces. **86h:42039**

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- Bakry, Dominique Étude probabiliste des transformées de Riesz et de l'espace H^1 sur les sphères. [Probabilistic study of Riesz transforms and the space H^1 on spheres] **86i:60134**
- Calderón, Alberto-P. On the Radon transform and some of its generalizations. **86h:44002**
- Chao, J. A. (with Ombe, H.) Commutators on dyadic martingales. **86k:60078**
- Christ, Michael (with Geller, Daryl) Singular integral characterizations of Hardy spaces on homogeneous groups. **86g:43007a**
Characterization of H^1 by singular integrals: necessary conditions. **86g:43007b**
- Ciesielski, Zbigniew Spline bases in spaces of analytic functions. **86a:46026**
- Colzani, Leonardo (with Taibleson, Mitchell H.; Weiss, Guido) Maximal estimates for Cesàro and Riesz means on spheres. **86g:43012**
- De Sousa, Geraldo Soares Spaces formed by special atoms. II. **86h:46041**
- Emery, M. Une définition faible de BMO. (English summary) [A weak definition of BMO] **86h:60093**
- Essén, M. A superharmonic proof of the M. Riesz conjugate function theorem. **86c:30068**
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- Fomin'kh, M. A. Transformation of BMO functions. (Russian) **86h:42020**
- Frazier, Michael Subspaces of BMO(\mathbb{R}^n). **86j:42021**
- Geller, Daryl See Christ, Michael, **86g:43007a**
- Gubreev, G. M. Spectral analysis of the differentiation operator and the Muckenhoupt condition. (Russian) **86h:47077**
- Ishak, S. (with Mogyórdi, J.) On the \mathcal{P}_q -spaces and the generalization of Herz's and Fefferman's inequalities. I. **86b:60081**
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- Jones, Peter Wilcox On interpolation between H^1 and H^∞ . **86c:46021**
BMO and the Banach space approximation problem. **86m:46017**
- (Khavin, V. P.) See Koosis, Paul, **86b:30053**
- Koosis, Paul ★ Введение в теорию пространств H^p . (Russian) [Introduction to H^p spaces] **86b:30053**
- Long, Rui Lin The spaces generated by blocks. **86i:46031**
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- Milman, Mario Rearrangements of BMO functions and interpolation. **86k:46040**
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- Mogyórdi, J. See Ishak, S., **86b:60081**
- Nakai, Eiichi On the restriction of functions of bounded mean oscillation to the lower-dimensional space. **86m:46027**
- Ombe, H. See Chao, J. A., **86k:60078**
- Pavlović, Miroslav See Mateljević, M., **86b:30055**
- Peetre, Jaak (with Svensson, Erik) On the generalized Hardy's inequality of McGehee, Pigno and Smith and the problem of interpolation between BMO and a Besov space. **86h:46057**
- Pekarskii, A. A. Direct and inverse theorems of rational approximation of the Hardy class. (Russian. English summary) **86j:41012**
- (Peller, V. V.) See Koosis, Paul, **86b:30053**
- Peng, Li Zhong Hardy-Sobolev spaces. (Chinese. English summary) **86c:46037**

- Sarason, Donald The Shilov and Bishop decompositions of $H^\infty + C$. **86a:46064**
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- Svensson, Erik See Peetre, Jaak, **86h:46057**
- Taibleson, Mitchell H. See Colzani, Leonardo et al., **86g:43012**
- Torchinsky, Alberto See Jawerth, Björn, **86k:42035**
- (Tumarkin, A. G.) See Koosis, Paul, **86b:30053**
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- Khristov, V. Kh. See Popov, Vasil Atanasov, **86b:42021**
- Lu, Shan Zhen On existence of entropy of conjugate functions. **86a:42030**
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- Shi, Xian Liang (with Torchinsky, Alberto) Poincaré and Sobolev inequalities in product spaces. (Not in MR)
- Torchinsky, Alberto See Shi, Xian Liang (Not in MR)
- Yudin, A. A. (with Yudin, V. A.) Polygonal Dirichlet kernels and growth of Lebesgue constants. (Russian) **86k:42039**
- Yudin, V. A. See Yudin, A. A., **86k:42039**

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- Dorronsoro, José R. A characterization of potential spaces. **86k:46046**
- Gundy, R. F. Temps locaux et l'intégrale d'aire de Lusin. [Local times and the Lusin area integral] **86d:31013**
- Ivanov, S. A. See Avdonin, S. A., **86d:35078**
- Tararykova, T. V. Estimation of integral forms of entire functions of exponential type in terms of discrete norms. (Russian) **86j:32004**

42Cxx Nontrigonometric Fourier analysis

42C05 Orthogonal functions and polynomials, general theory

[See also 33A65.]

- Alfaro, Ma. Pilar On the asymptotic behavior of the zeros of orthogonal polynomials. (Spanish. English summary) (See **86g:00012b**)
(with Vigil, L.) Roots of some equations in the theory of orthogonal polynomials on the unit circle. (Spanish. English summary) **86j:42029**
See also Marcellán Español, Francisco, **86j:42030**
- Alfaro García, Manuel (with Marcellán Español, Francisco) Summation formulas for orthogonal polynomials on lemniscates. (Spanish. English summary) (See **86g:00012b**)
- Andrews, George E. (with Onofri, E.) Lattice gauge theory, orthogonal polynomials and q -hypergeometric functions. **86b:42022**
- Andrienko, V. A. (with G'rnevaka, L. V.) The rate of summability of orthogonal series by Cesàro means. (Russian. English and Bulgarian summaries) **86d:42022**
- Atencia, E. (with Marcellán Español, Francisco) p -recurrence expressions. (Spanish. English summary) (See **86g:00012b**)
- Badkov, V. M. Uniform asymptotic representations of orthogonal polynomials. (Russian) **86d:42023**
- Balykbaev, T. O. A class of lacunary orthonormal systems. (Russian) (Not in MR)
- Barnett, S. Multiplication of generalized polynomials, with applications to classical orthogonal polynomials. **86c:42018**
- Carroll, Robert Wayne Orthogonal polynomials and transmutation. **86g:42040**
- Cohen, Joel M. (with Trenholme, Alice R.) Orthogonal polynomials with a constant recursion formula and an application to harmonic analysis. **86d:42024**
- Draux, André Formal orthogonal polynomials and Padé approximants in a noncommutative algebra. (See **86f:93009**)
- Eggert, Norman (with Lund, John) Dense rational systems in the Hilbert spaces $L^2(\mathbb{R}, (x^2+1)^n dx)$. **86d:42025**
- Endl, K. (with Leindler, L.) On the strong summability and approximation of orthogonal series with large exponent. **86b:42023**
- Fernandes, D. L. See Mangeron, Dumitru Ion et al., **86c:42019** and **86c:42020**
- Getsadze, R. D. Multiple systems of convergence. (Russian. English and Georgian summaries) **86d:42026**
- Giannuzzi, G. (with Guerra, S.) Suborthogonal systems and related series expansions. (Italian. English summary) **86g:42041**
- G'rnevaka, L. V. See Andrienko, V. A., **86d:42022**
- Guerra, S. See Giannuzzi, G., **86g:42041**
- Kasaryan, K. S. Multiplicative completion of uniformly bounded orthonormal systems to bases in L^p , $1 < p < \infty$. (Russian. English and Armenian summaries) **86a:42031**
- Krall, A. M. See Mangeron, Dumitru Ion et al., **86c:42019** and **86c:42020**
- Leindler, L. See Endl, K., **86b:42023**
- Lubinsky, D. S. On Nevai's bounds for orthogonal polynomials associated with exponential weights. **86h:42040**
- Lund, John See Eggert, Norman, **86d:42025**
- Mangeron, Dumitru Ion (with Krall, A. M.; Fernandez, D. L.) Weight functions for some new classes of orthogonal polynomials. (Spanish summary) **86c:42019**
(with Krall, A. M.; Fernandez, D. L.) A new look at some classic problems in orthogonal polynomials. (Spanish summary) **86c:42020**
- Marcellán Español, Francisco (with Alfaro, Ma. Pilar) Recurrence relations for orthogonal polynomials on algebraic curves. **86j:42030**
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- Máté, Attila (with Nevai, Paul; Zaslavsky, Thomas) Asymptotic expansions of ratios of coefficients of orthogonal polynomials with exponential weights. **86b:42024**
- Mhaskar, H. N. On the domain of convergence of series in polynomials orthogonal with respect to general weight functions on the whole real line. **86b:42041**
- Móricz, F. On the strong summability of double orthogonal series. **86c:42021**
- Nevai, Paul Asymptotics for orthogonal polynomials associated with $\exp(-x^4)$. **86i:42011**
- Exact bounds for orthogonal polynomials associated with exponential weights. **86g:42043**
- See also Máté, Attila et al., **86b:42024**
- Onofri, E. See Andrews, George E., **86b:42022**
- Peristadt, Marcel A property of orthogonal polynomial families with polynomial duals. **86d:42027**
- Totik, V. On the equiconvergence of different kinds of partial sums of orthogonal series. **86d:42028**
- Trenholme, Alice R. See Cohen, Joel M., **86d:42024**
- Ullman, Joseph L. A survey of exterior asymptotics for orthogonal polynomials associated with a finite interval and a study of the case of the general weight measures. **86g:42043**
- Orthogonal polynomials for general measures. I. **86j:42031**
- Vigil, L. See Alfaro, Ma. Pilar, **86j:42029**
- Zaslavsky, Thomas See Máté, Attila et al., **86b:42024**
- Zink, Robert E. Schauder bases for $L^p[0, 1]$ derived from subsystems of the Schauder system. (See **86f:00013**)

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- Chen, Jian Gong ★ Summation of the Fourier series of orthogonal functions. **86a:42001**
- Chen, T. H. C. Asymptotic estimates for the generalized Fourier coefficients. **86d:65167**
- Constantinescu, Lidia See Tomescu, F. M. G., **86a:94002**
- Dunkl, Charles F. Orthogonal polynomials with symmetry of order three. **86h:33003**
- Freund, Erich (with Petzold, Joachim) Nonharmonic Fourier series: a formalism for analyzing signals. (French, German and Russian summaries) **86m:94012**
- Gajewski, Ryszard Some theorems concerning approximation by double orthogonal series. **86b:41013**
- Gautschi, Walter On some orthogonal polynomials of interest in theoretical chemistry. **86d:85030**
- Große, C. C. Theory of recursive generation of systems of orthogonal polynomials: an illustrative example. **86g:33015**
- Hendriksen, E. A Bessel type orthogonal polynomial system. **86c:33016**
- Ismail, Mourad E. H. A queueing model and a set of orthogonal polynomials. **86k:60158**
- Koch, Per Erik An extension of the theory of orthogonal polynomials and Gaussian quadrature to trigonometric and hyperbolic polynomials. **86a:41011**
- Lascoux, Alain (with Shi, He) Généralisation de la formule de Darboux-Christoffel pour les polynômes orthogonaux. (English summary) [The Darboux-Christoffel generalized formula for orthogonal polynomials] **86i:05018**
- Maroni, Pascal Une caractérisation des polynômes orthogonaux semi-classiques. (English summary) [A characterization of semiclassical orthogonal polynomials] **86k:33014**
- Máté, Attila (with Nevai, Paul) Asymptotics for solutions of smooth recurrence equations. **86d:39002**
- Mhaskar, H. N. (with Saff, E. B.) Extremal problems for polynomials with exponential weights. **86b:41024**
- Nevai, Paul See Máté, Attila, **86d:39002**
- Njåstad, Olav An extended Hamburger moment problem. **86k:44011**
- Petzold, Joachim See Freund, Erich, **86m:94012**
- Raković, Branko P. (with Vasić, P. M.) Some extremal properties of orthogonal polynomials. **86g:94008**
- Saff, E. B. Incomplete and orthogonal polynomials. **86b:41029**
- See also Mhaskar, H. N., **86b:41024**
- Shi, He See Lascoux, Alain, **86i:05018**
- Stanton, Dennis Orthogonal polynomials and Chevalley groups. **86d:22008**
- Tomescu, F. M. G. (with Constantinescu, Lidia) Comments on: "Properties of Haar series expansion coefficients of certain classes of functions" [Rev. Roumaine Sci. Tech. Sér. Électrotech. Énergét. **28** (1983), no. 2, 157-162; MR **85c:94004**] by Constantinescu. **86a:94002**
- Vagabov, A. I. Equiconvergence of expansions in a trigonometric Fourier series and with respect to eigenfunctions of ordinary differential operators. (Russian) **86f:34058**
- Vasić, P. M. See Raković, Branko P., **86g:94008**

42C10 Fourier series in special orthogonal functions (Legendre polynomials, Walsh functions, etc.)

- Balashov, L. A. (with Skvortsov, V. A.) Gibbs constants for partial sums of Fourier-Walsh series and their $(C, 1)$ -means. (Russian) **86m:42031**
- Bugadse, V. M. On absolute convergence of Haar-Fourier series of superpositions of functions. (Russian summary) **86c:42035**
- Absolute convergence of the Fourier-Haar series of superposition of functions. (Russian) **86c:42022**
- Cimmino, Gianfranco Laplace coefficients of analytic functions at the boundary of an n -dimensional spherical domain. (Italian) **86j:42032**
- Feng, Yu Yu See Qi, Dong Xu, **86c:42023**
- Fridl, S. On the modulus of continuity with respect to functions defined on Vilenkin groups. **86h:42042**
- (with Simon, Péter) On the Dirichlet kernels and a Hardy space with respect to the Vilenkin system. **86m:42032**
- Gulichev, N. V. Series with convex coefficients in the Walsh system. (Russian) **86d:42029**

- Kanjin, Yüchi A Cohen type inequality for disk polynomial expansions. **86j:42033**
- Kialyakov, S. V. A correction theorem. **86j:42034**
- Martingale transformations and uniformly convergent orthogonal series. (Russian. English summary) **86i:42012**
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- Lasser, R. Lacunarity with respect to orthogonal polynomial sequences. **86g:42044**
- Levisov, S. V. The central limit theorem for a Walsh system. (Russian) **86b:42025**
- Manukyan, V. M. A subsystem of Walsh functions that is a representation system. (Russian. Armenian summary) **86c:42036**
- Maslov, A. V. Fourier coefficients in the Haar systems of functions from L_p spaces. (Russian) **86i:42013**
- Nagai, Takeaki Determination of a reciprocal of finite linear combination of Walsh functions. **86d:42030**
- Novikov, I. Ya. (with Semenov, E. M.) Fourier-Haar coefficients. (Russian) **86f:42017**
- Subsequences of the Haar system in L_1 . (Russian) **86m:42033**
- O'Farrell, A. G. The Legendre expansion of a smooth function. **86k:42040**
- Qi, Dong Xu (with Feng, Yu Yu) A note on a fast transform for a class of piecewise orthogonal polynomials. (Chinese) **86c:42023**
- Rafailson, S. Z. Lebesgue p -functions of Fourier-Jacobi sums. (Russian) **86b:42026**
- Ryabinin, A. A. Rademacher series in a Hilbert space. (Russian) **86k:42041**
- Schipp, F. (with Simon, Péter) On some (L^1, H) -type maximal inequalities with respect to the Walsh-Paley system. **86a:42032**
- Semenov, E. M. See Novikov, I. Ya., **86f:42017**
- Shcherbakov, V. I. The Dini-Lipschitz test and convergence of Fourier series with respect to multiplicative systems. (Russian. English summary) **86b:42027**
- Simon, Péter See Schipp, F., **86a:42032** and Fridl, S., **86m:42032**
- Skvortsov, V. A. Concerning divergent Haar series. (Russian) **86k:42042**
- See also Balashov, L. A., **86m:42031**
- Thomsen, Momme Johs Das System der Walsh-Funktionen. [The system of Walsh functions] **86d:42031**
- Tusikova, I. I. An example of a null-series with respect to an orthogonal multiplicative system of functions. (Russian) **86k:42043**
- Wade, William R. L^r inequalities for Walsh series, $0 < r < 1$. **86a:42033**
- Xi, Mei Cheng Dini's criterion of convergence for Fourier-V sequences. (Chinese. English summary) **86b:42028**
- Yoneda, Kaoru Uniqueness theorems for a certain small class of Walsh series. **86k:42044**
- Summing generalized closed U -sets for Walsh series. **86g:42045**
- Zaderel, N. N. (with Zaderel, P. V.) Exact bounds of Fourier-Haar coefficients on classes of continuous differentiable periodic functions of several variables. (Russian) **86b:42029**
- See also Zaderel, P. V., **86c:42037**
- Zaderel, P. V. (with Zaderel, N. N.) Uniform approximations by polynomials in the Haar system on classes of continuous functions of several variables. (Russian) **86c:42037**
- See also Zaderel, N. N., **86b:42029**
- Zotikov, S. V. Representation of a function by its Fourier-Haar integral. (Russian) **86c:42038**

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- Arunachalam, V. P. See Palanisamy, K. R., **86d:93078**
- Bokaev, N. A. Differentiation with respect to nets and series in certain orthonormal systems. (Russian. Kazakh summary) **86c:26016**
- Boyd, John Phillip Asymptotic coefficients of Hermite function series. **86c:41012**
- Coquet, Jean Mesures spectrales de Walsh associées à certaines suites arithmétiques. (English summary) [Walsh spectral measures associated with some arithmetical sequences] **86m:11057**
- Endow, Yasushi Some limit theorems for Walsh-harmonizable dyadic stationary sequences. **86m:60100**
- Giannuzzi, G. (with Guerra, S.) Suborthogonal systems and related series expansions. (Italian. English summary) **86g:42041**
- Gorbachuk, M. L. See Gorodetskii, V. V., **86g:34082**
- Gorodetskii, V. V. (with Gorbachuk, M. L.) Polynomial approximation of solutions of operator-differential equations in a Hilbert space. (Russian) **86g:34082**
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- Kashin, B. S. (with Saakyan, A. A.) ★ Ортогональные ряды. (Russian) [Orthogonal series] **86k:42046**
- Kasaryan, K. S. Summability and convergence of almost everywhere generalized Fourier and Fourier-Haar series. (Russian. English and Armenian summaries) **86m:42011**
- Kitada, Toshiyuki Fourier multipliers on certain disconnected groups. **86k:43006**
- Kuhn, Gabriella Convergence of Fourier series expansion related to free groups. **86b:43018**
- Lakhani, K. B. Order of approximation by Nörlund operators of Laguerre expansions. **86d:41024**
- Móricz, F. On the $|C, \alpha > \frac{1}{2}, \beta > \frac{1}{2}|$ -summability of double orthogonal series. **86m:42018**
- Palanisamy, K. R. (with Arunachalam, V. P.) Analysis of bilinear systems via single-term Walsh series. **86d:93078**
- Pandey, Diwakar On the absolute matrix summability of ultraspherical series. **86h:33007a**
- On the absolute matrix summability of ultraspherical series. **86h:33007b**
- Rahman, Misran A q -extension of Feldheim's bilinear sum for Jacobi polynomials and some applications. **86c:33019**
- Saakyan, A. A. See Kashin, B. S., **86k:42046**
- Simon, Péter On the Parseval equality and the Dini-Lipschitz condition with respect to the Vilenkin system. (Russian summary) **86b:43019**
- Su, Wei Yi See Zheng, Wei Xing, **86d:41027**
- Wolfenstetter, Stefan Spectral synthesis on algebras of Jacobi polynomial series. **86m:43007**

Zheng, Wei Xing (with Su, Wei Yi) Walsh analysis and approximation operators. (Chinese) **86d:41027**

42C15 Series of general orthogonal functions, generalized Fourier expansions, nonorthogonal expansions

Arutyunyan, A. G. (with Sinanyan, N. O.) Representation of measurable functions by complete orthonormalized systems with given coefficients. (Russian. Armenian summary) **86j:42035**

Bespalov, M. S. Fourier coefficients and approximation of functions by series in a periodic multiplicative system. (Russian) **86f:42018**

Boychev, G. S. Fatou-Riesz's theorem for series in Jacobi polynomials. **86b:42030**

Higgins, J. R. Five short stories about the cardinal series. **86k:42045**

Kashin, B. S. (with Saakyan, A. A.) ★ Ортогональные ряды. (Russian) [Orthogonal series] **86k:42046**

Komornik, Vilmos Sur l'équiconvergence des séries orthogonales et biorthogonales correspondant aux fonctions propres des opérateurs différentiels linéaires. (English summary) [On the equiconvergence of orthonormal and biorthonormal series corresponding to the eigenfunctions of linear differential operators] **86a:42034**

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Prather, Carl The oscillation of derivatives: the Bernstein problem for Fourier integrals. **86j:42036**

Saakyan, A. A. See Kashin, B. S., **86k:42046**

Sinanyan, N. O. See Arutyunyan, A. G., **86j:42035**

Talalyan, A. A. The local character of certain properties of complete orthonormal systems. (Russian) **86b:42031**

Tandori, K. Bounded orthonormal systems of functions. (Russian) **86d:42032**

Über die Mittel von orthogonalen Funktionen. [On the mean values of orthogonal functions] **86c:42024**

Systems of signs. (Russian) (See **86f:00015**)

See also Totik, V., **86i:42014**

Totik, V. (with Tandori, K.) Remarks on the convergence of orthogonal series. **86i:42014**

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Avdonin, S. A. (with Ivanov, S. A.) Riesz bases of exponentials in a space of vector-functions and controllability of an inhomogeneous string. (Russian) **86b:46058**

Ivanov, S. A. See Avdonin, S. A., **86b:46058**

Móricz, F. On the restricted Cesàro summability of multiple orthogonal series. **86c:40004**

Musoyan, V. Kh. Summation of biorthogonal expansions in two families of complete systems of algebraic functions. (Russian) **86k:30002**

Niukkanen, A. W. Clebsch-Gordan-type linearisation relations for the products of Laguerre polynomials and hydrogen-like functions. **86k:33015**

Padits, Ludwig Zur Fehlerabschätzung im zentralen Grenzwertsatz für stark multiplikative Systeme. [On the error estimate in the central limit theorem for strongly multiplicative systems] **86b:60058**

42C20 Rearrangements and other transformations of Fourier and other orthogonal series

Arutyunyan, F. G. Representation of measurable functions by bases in L^p , $p \geq 2$. (Russian. English and Armenian summaries) **86k:42047**

42C25 Uniqueness and localization for orthogonal series

Singh, L. B. On absolute summability of Fourier-Jacobi series. **86g:42046**

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Yoneda, Kaoru Summing generalized closed U -sets for Walsh series. **86g:42045**

42C30 Completeness of sets of functions

Dostanić, M. A sufficient condition for the system $\{e^{-\alpha\lambda_n x} \sin \lambda_n x\}_{n=1}^\infty$ not to be a basis in the space $L_2(0, \pi)$. (Russian. Serbo-Croatian summary) **86b:42032**

Kakabadse, L. V. Completeness and the basis property of a system of functions. (Russian) **86m:42034**

secondary classifications (42C30)

Talalyan, A. A. The local character of certain properties of complete orthonormal systems. (Russian) **86b:42031**

42C99 None of the above, but in this section

Kiplani, T. G. A constructive characteristic of a class of nonperiodic functions of several variables of the type $S_p^r B$. (Russian. English and Georgian summaries) **86h:42043**

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Beals, R. (with Greiner, Peter C.; Vauthier, J.) The Laguerre calculus on the Heisenberg group. **86g:22011**

Greiner, Peter C. See Beals, R. et al., **86g:22011**

Lubinsky, D. S. A weighted polynomial inequality. **86e:41021**

Vauthier, J. See Beals, R. et al., **86g:22011**

43-XX ABSTRACT HARMONIC ANALYSIS {For other analysis on topological and Lie groups, see 22Exx.}

43-01 Elementary exposition; textbooks

Figà-Talamanca, Alessandro Harmonic analysis on discrete structures. (Italian) **86e:43001**

43-02 Advanced exposition (research surveys, monographs, etc.)

Berg, Christian (with Christensen, Jens Peter Reus; Ressel, Paul) ★ Harmonic analysis on semigroups. **86b:43001**

Christensen, Jens Peter Reus See Berg, Christian et al., **86b:43001**

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secondary classifications (43-02)

Brown, Gavin Harmonic synthesis—theoretical bounds. (See **86i:94004**)

Ruppert, Wolfgang ★ Compact semitopological semigroups: an intrinsic theory. **86e:22001**

43-03 Historical (must also be assigned at least one classification number from Section 01)

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Higgins, J. R. Five short stories about the cardinal series. **86k:42045**

Koshi, Shozo 50 years of real function theory—influence of the theory of integrals. (Japanese) **86i:01028**

Sunouchi, Gen-ichirō 50 years of real function theory: Fourier analysis. (Japanese) **86m:01044**

43A05 Measures on groups, semigroups, etc.

Ayyaswamy, S. K. Extremely measurable subalgebras. **86k:43001**

Belley, J.-M. (with Morales, Pedro) Corrigendum and addendum to: "A generalization of Wiener's criteria for the continuity of a Borel measure" [Studia Math. **72** (1982), no. 1, 27–36; MR **84j:43001**]. **86g:43002**

Berg, Christian Semi-groupes de moments. [Semigroups of moments] **86e:43002**

Bloom, Walter R. (with Heyer, Herbert) Convolution semigroups and resolvent families of measures on hypergroups. **86c:43001**

Eberlein, W. F. On the Wiener-Eberlein theorem. **86g:43001**

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Heyer, Herbert See Bloom, Walter R., **86c:43001**

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Russa, Imre Z. (with Székely, Gábor J.) Theory of decomposition in semigroups. **86h:43001**

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Siebert, Eberhard Holomorphic convolution semigroups on topological groups. **86c:43003**

Székely, Gábor J. See Russa, Imre Z., **86h:43001**

Takahashi, Yuji (with Yamaguchi, Hiroshi) On measures which are continuous by certain translation. **86c:43004**

Yamaguchi, Hiroshi See Takahashi, Yuji, **86c:43004**

Zeuner, Hansmartin Die Existenz einer Lévy-Abbildung auf einem homogenen Raum. [The existence of a Lévy mapping on a homogeneous space] **86i:43002**

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Bloom, Walter R. (with Sussich, Joseph F.) Saturation on locally compact abelian groups. **86g:41037**

Byczkowski, T. (with Żak, T.) Decomposition of convolution semigroups of probability measures on groups. **86j:60021**

Dani, S. G. A note on invariant finitely additive measures. **86f:28016**

Duponcheel, Luc Non-Archimedean quasi-invariant measures on homogeneous spaces. **86f:22011**

Gallardo, Leonard (with Gebuhrer, Olivier) Lois de probabilité infiniment divisibles sur les hypergroupes commutatifs, discrets, dénombrables. (English summary) [Infinitely divisible probability measures on discrete countable commutative hypergroups] **86e:60011**

Gebuhrer, Olivier See Gallardo, L., **86e:60011**

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McCrudden, M. (with Wood, R. M. W.) On the support of absolutely continuous Gauss measures. **86i:60025**

Mirošin, A. R. Invariant measures in locally compact semigroups with open translations. (Russian) **86a:28019**

Russa, Imre Z. (with Székely, Gábor J.) No distribution is prime. **86j:60023**

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43A07 Means on groups, semigroups, etc.

- Dainotiyewyl, Henneri A. M. The cardinality of the set of invariant means on a locally compact topological semigroup. **86f:43001**
 Grosvener, John R. A relation between invariant means on Lie groups and invariant means on their discrete subgroups. **86g:43004**
 Pier, Jean-Paul ★ Amenable locally compact groups. **86a:43001**
 Rajagopalan, Minakshisundaram (with Ramakrishnan, P. V.) Uses of βS in invariant means and extremely left amenable semigroups. **86d:43002**
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 Sakai, Kouichi Characterization of amenable semigroups with a unique invariant mean. **86g:43005**
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 Vershik, A. M. Amenability and approximation of infinite groups. **86g:43006**

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- Ayyaswamy, S. K. Extremely measurable subalgebras. **86k:43001**
 Enock, Michel (with Schwartz, Jean-Marie) Moyennabilité des groupes localement compacts et algèbres de Kac. (English summary) [Amenability of locally compact groups and Kac algebras] **86g:46104**
 Ganesan, S. A necessary and sufficient condition for a connected amenable group to have polynomial growth. **86g:22008**
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43A10 Measure algebras on groups, semigroups, etc.

- Chien, Mao Ting Algebra actions of semigroup algebras. **86m:43001**
 Graham, Colin C. L -subalgebras of measures related to dissociate sets. **86i:43003**
 Lake, Jane Tame measures and Raikov systems on the circle. **86f:43002**

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- Dainotiyewyl, Henneri A. M. Sizes of quotient spaces of certain function algebras on topological semigroups. **86k:22006**
 Heyer, Herbert Probability theory on hypergroups: a survey. **86c:60016**
 Shum, Kar Ping A note on globally idempotent semigroups of measures. **86k:43002**

43A15 L^p -spaces and other function spaces on groups, semigroups, etc.

- Alspach, Dale E. (with Matheson, Alec L.; Rosenblatt, Joseph Max) Projections onto translation-invariant subspaces of $L_1(G)$. **86h:43002**
 Ash, J. Marshall (with Ross, Kenneth A.) Decreasing rearrangements and $L^{p,q}$ of the Bohr group. **86b:43002**
 Christ, Michael (with Geller, Daryl) Singular integral characterizations of Hardy spaces on homogeneous groups. **86g:43007a**
 Characterization of H^1 by singular integrals: necessary conditions. **86g:43007b**
 Crombes, G. (with Govaerts, W.) Completely continuous multipliers from $L_1(G)$ into $L_{\infty}(G)$. **86b:43003**
 Dooley, A. H. (with Gaudry, G. I.) An extension of deLeeuw's theorem to the n -dimensional rotation group. **86a:43002**
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 Resola, M. L. A theorem of density for translation invariant subspaces of $L^p(G)$. (Italian summary) **86f:43003**
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- Bürger, Reinhard Contributions to duality theory on groups and hypergroups. **86a:43005**
 Fournier, John J. F. (with Stewart, James D.) Amalgams of L^p and l^q . **86f:46027**
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 Gaudry, G. I. (with Ricker, Werner) Spectral properties of L^p translations. **86i:47043**
 Kilyakov, S. V. A correction theorem. **86j:42034**
 Kumahara, Keisaku A Hardy-Littlewood-Paley theorem for symmetric spaces. **86a:22015**

- Loert, V. (with Rindler, H.) Asymptotically central functions and invariant extensions of Dirac measure. **86e:43007**
 O'ahanskii, G. I. Complex Lie semigroups, Hardy spaces and the Gelfand-Gindikin program. (Russian) **86m:22011**
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 Tchamitchian, Philippe Généralisation des algèbres de Beurling. (English summary) [Generalization of Beurling algebras] **86d:47019**

43A17 Analysis on ordered groups, H^p -theory

- Glicksberg, I. The strong conclusion of the F. and M. Riesz theorem on groups. **86a:43004**

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- Tonev, T. V. Generalized-analytic coverings in the maximal ideal space. **86a:46060**

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- Bürger, Reinhard Contributions to duality theory on groups and hypergroups. **86a:43005**
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- Boldol, Joachim Group algebras with a unique C^* -norm. **86c:22006**
 Cohen, Joel M. Radial functions on free products. **86c:22014**
 Grosser, Michael (with Loert, V.) The norm-strict bidual of a Banach algebra and the dual of $C_b(G)$. **86b:46073**
 Gurarie, David Representations of compact groups on Banach algebras. **86h:22007**
 Kahane, Jean-Pierre Une preuve rapide du théorème de Beurling et Helson sur les endomorphismes de l'algèbre $l^1(\mathbb{Z})$. [A quick proof of the Beurling-Helson theorem on the endomorphisms of the algebra $l^1(\mathbb{Z})$] **86a:43006**
 Leptin, Horst A new kind of eigenfunction expansions on groups. **86a:43011**
 Loert, V. See Grosser, Michael, **86b:46073**
 Medgalchi, A. R. Isometric isomorphisms and multipliers on compact P^* -hypergroups. **86i:43005**
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43A22 Homomorphisms and multipliers of function spaces on groups, semigroups, etc.

- Baker, John Walter (with Pym, J. S.; Vasudeva, H. L.) Multipliers for some measure algebras on compact semilattices. **86b:43008**
 Bożejko, Marek (with Fendler, Gero) Herz-Schur multipliers and completely bounded multipliers of the Fourier algebra of a locally compact group. (Italian summary) **86b:43009**
 De Cannière, Jean (with Haagerup, Uffe) Multipliers of the Fourier algebras of some simple Lie groups and their discrete subgroups. **86m:43002**
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 Fendler, Gero An L^p -version of a theorem of D. A. Raikov. **86h:43003**
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 Kim, Choo Whan (with Kim, Yeong Don) Multipliers with discrete spectrum. **86e:43008**
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 Mantero, Anna Maria Asymmetry of convolution operators on the Heisenberg group. (Italian summary) **86e:43009**
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 Ritter, David L. A convolution theorem for probability measures on finite groups. **86g:43006**

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Yu, Shu Mo Multipliers from the integrable functions, $L_1(G)$, to the pseudomeasures, $P(G)$, on a locally compact abelian group G . (Chinese. English summary) 86c:43004

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Crombes, G. (with Govaerts, W.) Completely continuous multipliers from $L_1(G)$ into $L_\infty(G)$. 86b:43003

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43A25 Fourier and Fourier-Stieltjes transforms on locally compact abelian groups

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Ramsey, Thomas (with Weit, Yitzhak) Ergodic and mixing properties of measures on locally compact abelian groups. 86b:43014

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43A30 Fourier and Fourier-Stieltjes transforms on nonabelian groups and on semigroups, etc.

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43A32 Other transforms and operators of Fourier type

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Feig, E. See Auslander, L. et al., 86c:68037a and 86c:68037b

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43A35 Positive definite functions on groups, semigroups, etc.

Ali, H. A. See Okb El-Bab, A. S. et al., 86h:43007

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43A45 Spectral synthesis on groups, semigroups, etc.

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Meaney, Christopher Spherical functions and spectral synthesis. 86k:43005

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Weit, Yitzhak On spectral synthesis and ergodicity in spaces of vector-valued functions. 86b:43017

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43A46 Special sets (thin sets, Kronecker sets, Helson sets, Ditkin sets, Sidon sets, etc.)

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43A50 Convergence of Fourier series and of inverse transforms

Kuhn, Gabriella Convergence of Fourier series expansion related to free groups. **86b:43018**

43A55 Summability methods on groups, semigroups, etc. [See also 40J05.]

Chen, Guang Xiao (with He, Zu Qi) On Abel summability of Fourier series on unitary symplectic groups. (Chinese) **86b:43010**

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43A60 Almost periodic functions on groups and semigroups and their generalizations (recurrent functions, distal functions, etc.); almost automorphic functions

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43A65 Representations of groups, semigroups, etc. [See also 22Dxx.]

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43A70 Analysis on specific locally compact abelian groups [See also 11R56.]

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43A75 Analysis on specific compact groups

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43A80 Analysis on other specific Lie groups [See also 22E30.]

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43A85 Analysis on homogeneous spaces

- Chen, Guang Xiao Harmonic analysis on a bounded domain that has $USp(2n)$ as its characteristic manifold. (Chinese. English summary) **86b:43021**
- Colsani, Leonardo (with Taibleson, Mitchell H.; Weiss, Guido) Maximal estimates for Cesàro and Riesz means on spheres. **86g:43012**
- El-Jaouhari, Noureddine Théorème de Fatou pour les fonctions propres des opérateurs différentiels invariants par un groupe de déplacements de Cartan. (English summary) [Fatou theorem for the eigenfunctions of invariant differential operators by a group of Cartan displacements] **86a:43014**
- Eymard, Pierre Le noyau de Poisson et l'analyse harmonique non euclidienne. [The Poisson kernel and non-Euclidean harmonic analysis] **86j:43005**
- Faraut, J. Analyse harmonique sur les espaces hyperboliques. [Harmonic analysis on hyperbolic spaces] **86j:43006**
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- Schlichtkrull, Henrik On the boundary behaviour of generalized Poisson integrals on symmetric spaces. **86k:43007**
- Shi, Xian Liang (with Torchinsky, Alberto) Local sharp maximal functions in spaces of homogeneous type. (Not in MR)
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- Terras, Audrey Non-Euclidean harmonic analysis, the central limit theorem, and long transmission lines with random inhomogeneities. **86k:43009**
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- Bănuțescu, Martha Potential theory on Lie groups. **86c:31004**
- Benoist, Yves Analyse harmonique sur les espaces symétriques nilpotents. (English summary) [Harmonic analysis on nilpotent symmetric spaces] **86i:22014**
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- Clerc, Jean-Louis Orbites dans le plan tangent d'un espace symétrique, mesures orbitales et leurs transformées de Fourier. [Orbits in the tangent plane of a symmetric space, orbital measures and their Fourier transforms] **86c:22013**
- Corwin, Lawrence Solvability of left invariant differential operators on nilpotent Lie groups. **86c:22015**
- Necessary and sufficient conditions for hypoellipticity of certain left invariant operators on nilpotent Lie groups. II. **86i:58122**
- van Dijk, G. Invariant eigendistributions on the tangent space of a rank one semisimple symmetric space. **86c:22027**
- Dooley, A. H. Contractions of Lie groups and applications to analysis. **86c:22015**
- Duponcheel, Luc Non-Archimedean improper measures on homogeneous spaces. **86m:11076**
- Faraut, J. See Satake, Ichirō, **86a:11019**
- Flensted-Jensen, Mogens Harmonic analysis on semisimple symmetric spaces. A method of duality. **86h:22013**
- Gaillard, Pierre-Yves Transformation de Poisson de formes différentielles et courants invariants. (English summary) [Poisson transform of differential forms and invariant currents] **86b:58005**
- Gelfand, I. M. (with Graev, M. I.; Roșu, R.) The problem of integral geometry and intertwining operators for a pair of real Grassmannian manifolds. **86c:22016**
- See also Ałapetyan, R. G. et al., **86c:53043**
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- Guivarc'h, Y. Sur la représentation intégrale des fonctions harmoniques et des fonctions propres positives dans un espace riemannien symétrique. (English summary) [Integral representation of positive eigenfunctions and harmonic functions in a Riemannian symmetric space] **86i:31011**
- Helgason, Sigurdur ★ Groups and geometric analysis. **86c:22017**
- Wave equations on homogeneous spaces. **86c:58141**
- Operational properties of the Radon transform with applications. **86k:58138**
- Johnson, Kenneth D. Generalized Hua operators and parabolic subgroups. **86c:22016**
- Korányi, A. (with Taylor, John Christopher) Minimal solutions of the heat equation and uniqueness of the positive Cauchy problem on homogeneous spaces. **86i:58126**
- Kosters, W. A. Eigenspaces of the Laplace-Beltrami-operator on $SL(n, \mathbb{R})/S(GL(1) \times GL(n-1))$. I. **86k:22025a**
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- Lemarie, Pierre Gilles ★ Algèbres d'opérateurs et semi-groupes de Poisson sur un espace de nature homogène. (French) [Operator algebras and Poisson semigroups on a space of homogeneous type] **86g:42030**
- Meaney, Christopher Localization of spherical harmonic expansions. **86f:58160**
- Oganessian, G. R. See Ałapetyan, R. G. et al., **86c:53043**
- Ōshima, Toshio Discrete series for semisimple symmetric spaces. **86m:22024**
- Penney, Richard Harmonic analysis on unbounded homogeneous domains in C^n . **86k:32052**
- Pilch, K. (with Schellekens, A. N.) Formulas for the eigenvalues of the Laplacian on tensor harmonics on symmetric coset spaces. **86c:81073**
- Prati, M. C. Exact eigenfunctions of some completely integrable systems. **86b:58126**
- Rogu, R. See Gelfand, I. M. et al., **86c:22016**
- Satake, Ichirō (with Faraut, J.) The functional equation of zeta distributions associated with formally real Jordan algebras. **86a:11019**

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43A90 Spherical functions [See also 22E45, 22E46.]

van den Dries, R. J. C. H. Spherical functions on compact symmetric spaces. I. **86h:43011**

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- Dunkl, Charles F. Orthogonal polynomials with symmetry of order three. **86h:33003**
- Faraut, J. Analyse harmonique sur les espaces hyperboliques. [Harmonic analysis on hyperbolic spaces] **86j:43006**
- Figà-Talamanca, Alessandro (with Picardello, Massimo A.) Restriction of spherical representations of $PGL_2(\mathbb{Q}_p)$ to a discrete subgroup. **86b:22029**
- Johnson, Kenneth D. Generalized Hua operators and parabolic subgroups. **86c:22016**
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- Koornwinder, Tom H. Jacobi functions and analysis on noncompact semisimple Lie groups. **86m:33018**
- Picardello, Massimo A. See Figà-Talamanca, Alessandro, **86b:22029**
- Seidel, J. J. Harmonics and combinatorics. **86c:05024**
- Vretare, Lars Recurrence formulas for zonal polynomials. **86j:22012**

43A99 Miscellaneous topics

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- Betori, Walter (with Pagliacci, Mauro) Harmonic analysis for groups acting on trees. (Italian summary) **86g:22012**
- Kurbatov, V. G. Local Fredholm property of a difference operator (Russian). **86c:47052**
- Pagliacci, Mauro See Betori, Walter, **86g:22012**
- Pym, J. S. (with Vasudeva, H. L.) Compactifications of some hyperspace semigroups. **86c:22003**
- Schempp, Walter Identities and inequalities via symmetrization. **86g:20009**
- Valnerman, L. I. Hypercomplex systems with compact and discrete basis. (Russian) **86b:46087**
- Vasudeva, H. L. See Pym, J. S., **86c:22003**

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{For fractional derivatives and integrals, see 26A33. For numerical methods, see 65R10.}

- Berenstein, C. A. See Yger, A., **(86j:00010)**
- Chernokoshin, E. V. A method for calculating characteristic numbers of an operator function of a special type. (Russian) (Not in MR)
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44-01 Elementary exposition; textbooks

- Davies, Brian ★ Integral transforms and their applications. **86a:44001**
- Koh, E. L. Integral transforms of generalized functions and operational calculus. (Arabic summary) **86f:44001**
- Posthoff, Christian (with Woschni, E.-G.) ★ Funktionaltransformationen der Informationstechnik. (German) [Functional transformations of information technique] **86f:44002**
- Woschni, E.-G. See Posthoff, Christian, **86f:44002**

secondary classifications (44-01)

- Bleyer, A. See Preuss, W. et al., **86h:46003a** and **86h:46003b**
- Deans, Stanley R. ★ The Radon transform and some of its applications. **86a:44003**
- Kiselev, A. I. See Krasnov, M. L. et al., **86c:00007**
- Krasnov, M. L. (with Kiselev, A. I.; Makarenko, G. I.) ★ Functions of a complex variable, operational calculus, and stability theory. **86c:00007**
- Makarenko, G. I. See Krasnov, M. L. et al., **86c:00007**
- Preuß, Heinrich See Preuss, W. et al., **86h:46003a** and **86h:46003b**

- Preuss, W. (with Bleyer, A.; Preuß, Heinrich) ★ Distributionen und Operatoren. (German) [Distributions and operators] 86b:40003a
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(Yankovskii, E.) See Krasnov, M. L. et al., 86c:00007

44-03 Historical (must also be assigned at least one classification number from Section 01)

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44A05 General transforms [See also 42A38.]

- Geluk, J. L. Abelian and Tauberian theorems for 0-regularly varying functions. 86d:44001
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44A10 Laplace transform

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Belov, M. A. The FA-method of inverting the integral Laplace transform by means of Hermite functions. (Russian) 86b:44003
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Topuriya, S. B. Some properties of the de la Vallée-Poussin integral on a sphere. (Russian. English and Georgian summaries) 86b:44003
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Yan, Bin Nan (with Yuan, Xu Pin) An inversion formula between Laplace and Z transforms. (Chinese. English summary) 86a:44007
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- Ahuja, Gopi On extended Hankel transformation for generalized functions. 86d:44004
Beykin, Gregory The inversion problem and applications of the generalized Radon transform. 86a:44002
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Carton-Lebrun, C. Smoothness properties of certain integrals and the range of the Radon transform. 86b:44003
Chaturvedi, V. K. (with Goyal, A. N.) A study of a distributional generalized A -transform. I. (Hindi. English summary) 86b:44004a
(with Goyal, A. N.) A study of a distributional generalized A -transform. II. (Hindi. English summary) 86b:44004b
Christ, Michael Estimates for the k -plane transform. 86k:44004
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Fawcett, John Inversion of n -dimensional spherical averages. 86k:44005
Flajolet, Philippe (with Regnier, Mireille; Sedgewick, Robert) Some uses of the Mellin integral transform in the analysis of algorithms. 86m:44001
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- Natterer, F. Some nonstandard Radon problems. 86k:44008
- Naylor, Derek On a nonselfadjoint expansion formula. 86d:44008
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- Pandey, Ram K. See Pathak, Ram Shankar, 86b:44005
- Pathak, Ram Shankar (with Pandey, Ram K.) The generalized Mehler-Fock transformation of distributions. (Arabic summary) 86b:44005
- Quinto, Eric Todd Singular value decompositions and inversion methods for the exterior Radon transform and a spherical transform. 86b:44006
- Radshabov, È. L. Certain properties of the generalized integral Bessel-Hankel-Schwarz transform. (Russian. Tajiki summary) (Not in MR)
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- Regnier, Mireille See Flajolet, Philippe et al., 86m:44001
- Sedgewick, Robert See Flajolet, Philippe et al., 86m:44001
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- Vu Kim Tuan (with Yakubovich, S. B.) The Kontorovich-Lebedev integral transformation in a new class of functions. (Russian. English summary) 86d:44009
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- Ahuja, Gopi Fractional integration and its application to a pair of dual integral equations. 86g:26006
- (Ando, Tsuyoshi) See Katsnel'son, V. È., 86i:47048
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- Boivin, Albéric See Boivin, Richard, 86e:85169
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- Bourgain, J. On martingales transforms in finite-dimensional lattices with an appendix on the K -convexity constant. 86j:47039
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- Hansen, Eric W. (with Law, Phai-Lan) Recursive methods for computing the Abel transform and its inverse. 86k:65124
- Helgason, Sigurdur Operational properties of the Radon transform with applications. 86k:58138
- Henery, R. J. Hilbert transforms using fast Fourier transforms. 86k:65125
- Heywood, P. (with Rooney, P. G.) A weighted norm inequality for the Hankel transformation. 86f:44008
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- Koranne, V. D. A theorem on integral equation. 86a:45009
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- Nelson, S. A. See Madych, W. R., 86k:92006
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- Chernokoshin, E. V. A method for calculating characteristic numbers of an operator function of a special type. (Russian) (Not in MR)

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45-02 Advanced exposition (research surveys, monographs, etc.)

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- Imomnassarov, B. Approximate solution of integro-operator equations of Volterra type of the first kind. (Russian) **86i:45026**
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- (Kolmanovskii, V. B.) See Corduneanu, Constantin (Not in MR)
- Lakshmikantham, V. See Corduneanu, Constantin (Not in MR)
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- (Nosov, V. R.) See Corduneanu, Constantin (Not in MR)
- Pakhyrov, Z. (with Iskandarov, S.) Boundedness and quadratic integrability on the semiaxis of solutions of first-order linear integro-differential equations of Volterra type with complex coefficients. (Russian) (See **86m:00011**)
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- Pluciennik, Ryszard (with Szufla, Stanislaw) Nonlinear Volterra integral equations in Orlicz spaces. **86e:45021**
- Protter, Philip Volterra equations driven by semimartingales. **86k:60112**
- Ravera, Guido Solution of the displacement equation in the membrane theory of revolution. (Italian. English summary) **86d:73026**
- Rubinstein, Lev A model problem of the theory of nonelectrolyte transfer through deformable semipermeable membranes. (Russian and Polish summaries) **86j:80006**
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- Spallari, Fiorella See Alliney, S., **86j:65174**
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- Sidorov, N. A. Solution of integro-differential equations with noninvertible operator multiplying the derivative. (Russian) **86g:45024**
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- 45Exx Singular integral equations [See also 30E20, 30E25, 44A15, 44A35.]**
- 45E05 Integral equations with kernels of Cauchy type [See also 35J15.]**
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- Belotserkovskii, S. M. See Arsenin, V. Ya. et al., **86i:45006**
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- Duduchava, R. V. Multidimensional singular integral equations. Fundamental theorems. (Russian. English and Georgian summaries) **86h:45009**
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- Gabadava, T. V. Approximate solution of a singular integral equation in the case of an open integration contour. (Russian) **86g:45014**
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- Matskul, V. N. Approximate solution of the Riemann problem with functionally commutative matrix. (Russian) **86k:45003**
- Matveev, A. F. See Lifanov, I. K., **86d:45006** and Arsenin, V. Ya. et al., **86i:45006**
- Monakhov, V. N. (with Semenko, E. V.) Singular integral equations with an infinite index in L_p spaces. (Russian) (Not in MR)
- Mushev, B. I. On the approximate solution of singular integral equations. (Russian) **86k:45004**
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- Nguyễn Văn Mậu Solvability in closed form of singular integral equations. (Russian) **86k:45005**
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- Panasyuk, V. V. (with Savruk, M. P.; Nazarchuk, Z. T.) ★ Метод сингулярных интегральных уравнений в двумерных задачах дифракции. (Russian) [The method of singular integral equations in two-dimensional problems of diffraction] **86i:45009**
- Pleshchinskii, N. B. Some identities for integral operators with a generalized power kernel. (Russian) **86a:45003**
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- Porter, David On some integral equations with a Hankel function kernel. **86g:45015**
- Radchenko, T. N. (with Rogozhin, V. S.) On the theory of the exceptional case of a singular integral equation with a Cauchy kernel and a Riemann boundary value problem. (Russian) **86j:45012**
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- Semenko, E. V. See Monakhov, V. N. (Not in MR)
- Shail, R. A class of singular integral equations with some applications. **86a:45004**
- Shcherbina, V. A. Boundary operators and a variant of the method of discrete vortices in the Neumann problem. (Russian) **86i:45010**
- Sveshnikov, N. A. See Krivchenkov, I. V., **86i:45007**
- Volkhin, V. A. Stability of solutions of multidimensional singular and weakly singular integral equations. (Russian) **86h:45011**
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- Zarubin, A. N. Regularization of dual singular integral equations. (Russian) (See **86d:00006**)
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- Apalcheva, L. A. (with Semenov, I. P.) Polynomial approximation of solutions of a class of singular integro-differential equations. (Russian) **86c:45011**
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- Cherkasov, A. I. Some properties of a singular integral. (Russian. English and Azerbaijani summaries) **86a:42014**
- Didenko, V. D. The problem of approximate factorization of matrices and its applications. (Russian) **86e:30039**
- Gavrin, V. P. (with Kabak, G. I.) The Green function of a singular integro-differential finite-dimension-valued correspondence. (Russian) **86i:93010**
- Grudskii, S. M. Singular integral equations and the Riemann boundary value problem with an infinite index in the space $L_0(\Gamma, \omega)$. (Russian) **86h:30075**
- He, Wen Hua Singular integrals and singular integral equations on the complex hypersphere. (Chinese. English summary) **86d:42020**
- Ioakimidis, N. I. A remark on the application of interpolatory quadrature rules to the numerical solution of singular integral equations. **86h:65196**
Singular loadings in elasticity problems and singular solutions of the corresponding integral equations. **86m:73018**

- Junghanns, Peter (with Silbermann, Bernd) Numerical analysis for one-dimensional Cauchy-type singular integral equations. **86f:65216**
 (with Silbermann, Bernd) Local theory of the collocation method for the approximate solution of singular integral equations. I. **86h:65198**
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Effective solution of systems of algebraic equations occurring in the approximate solution of singular integral equations by means of the method of quadrature formulae. **86m:65182b**

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 Krikunov, Yu. M. On the solution of an integral equation of the Tricomi problem for the Lavrent'ev-Bitsadze equation. (Russian) **86i:35101**
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 Lin, Yu Bo A periodic Riemann boundary value problem of nonnormal type and its application to singular integral equations with Hilbert kernel. II. (Chinese) **86d:30069**
 Lowengrub, M. (with Walton, J. R.) A note on the asymptotic expansion of an integral occurring in the analysis of certain bimedia crack problems. **86b:73029**
 Lu, Jian Ke Formulas of Bertrand-Poincaré type related to singular integrals of higher order. (Chinese. English summary) **86m:30045**
 Mamedkhanov, Dsh. I. (with Salauv, V. V.) Local properties of singular integrals. (Russian) **86f:42006**
 (Manin, Yu. I.) See Hodge cycles and motives, **86j:14039**
 Mardalev, R. A criterion for semi-Noethericity of a class of singular integral operators with non-Carleman shift. (Russian) **86m:47077**
 Sakhorovich, L. A. Abel integral equations in the theory of stable processes. (Russian) **86j:60169**
 Salauv, V. V. See Mamedkhanov, Dsh. I., **86f:42006**
 Selchuk, V. N. Convergence of the collocation method and the method of mechanical quadratures for singular integral equations given on a Lyapunov contour. (Russian) **86g:65236**
 Semenov, I. P. See Apalcheva, L. A., **86c:45011**
 Silbermann, Bernd See Junghanns, Peter, **86f:65216** and **86h:65198**
 Verma, Ram U. The generalized Fredholm operators with finite indices. **86k:47012**
 Walton, J. R. See Lowengrub, M., **86b:73029**
 Wiener, Klaus Über das asymptotische Verhalten der Lösungen einer Differentialgleichung nichtganzzahliger Ordnung aus der Polarographie. [On the asymptotic behavior of the solutions of a differential equation of nonintegral order from polarography] **86b:80022**
 Xu, Zhen Yuan Two-dimensional singular integral equations with analytic coefficients. (Chinese) **86b:30061**
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45E10 Integral equations of the convolution type (Abel, Picard, Toeplitz and Wiener-Hopf type) [See also 47B35.]

- Arabadshyan, L. G. (with Engibaryan, N. B.) Convolution equations and nonlinear functional equations. (Russian) **86k:45007**
 See also Engibaryan, N. B., **86a:45005**
 Bart, H. (with Gohberg, Israel; Kaashoek, M. A.) The coupling method for solving integral equations. **86c:45003**
 Chow, Yun Shyong (with Grenander, Ulf) A singular perturbation problem. **86k:45008**
 Daniele, V. G. On the solution of two coupled Wiener-Hopf equations. **86b:45009**
 Engibaryan, N. B. (with Arabadshyan, L. G.) Systems of Wiener-Hopf integral equations and nonlinear factorization equations. (Russian) **86a:45005**
 See also Arabadshyan, L. G., **86k:45007**
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 Kamalyan, A. G. (with Neresyan, A. B.) Inversion of integral operators with almost sum-difference kernel. (Russian. English and Armenian summaries) **86k:45009**
 Khafkin, M. I. Regularization of ill-posed problems for solving one-dimensional integral convolution equations. (Russian) **86c:45004**
 Kobayashi, Kasuya On the factorization of certain kernels arising in functional equations of the Wiener-Hopf type. **86c:45004**
 Kon, B. A. Inverse of Wiener-Hopf-type operators. **86g:45016**
 Koul, C. L. See Srivastava, Hari M. et al., **86j:45014**
 Kosak, A. V. The local principle in the theory of projection methods. (Russian) **86d:45007**
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 Londen, Stig-Olof On some singular convolution integrals. **86g:45017**
 Manucharyan, G. A. See Latshev, A. V. et al., **86k:45010**
 Mikolás, M. Integrodifferentielle komplexer Ordnung und spezielle Funktionen der mathematischen Physik. [Integro-derivatives of complex order and special functions of mathematical physics] (Not in MR)
 Neresyan, A. B. See Kamalyan, A. G., **86k:45009**
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 Pavel'ev, A. G. Analytic and numerical solution of the Fredholm equation of the first kind that arises in an inverse refraction problem. (Russian) **86c:45005**
 Raina, R. K. See Srivastava, Hari M. et al., **86j:45014**
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- Shilin, A. P. Integral equations of convolution type that reduce to Hilbert problems. (Russian) **86d:45008**
 Srivastava, Hari M. (with Koul, C. L.; Raina, R. K.) A class of convolution integral equations. **86j:45014**
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secondary classifications (45E10)

- Badeva, Veneta Ill-posed problems in the theory of optimal filtration. Synthesis of Ω -optimal linear filters. **86m:93082**
 Böttcher, Albrecht Two-dimensional convolutions in corners with kernels having support in a half-plane. (Russian) **86c:47031**
 The finite section method for two-dimensional Wiener-Hopf integral operators in L^p with piecewise continuous symbols. **86d:47030**
 Dixon, Jennifer On the order of the error in discretization methods for weakly singular second kind Volterra integral equations with nonsmooth solutions. **86m:65180**
 Eggermont, P. P. B. Stability and robustness of collocation methods for Abel-type integral equations. **86j:65176**
 Estrada, Ricardo (with Kanwal, R. P.) Distributional solutions of singular integral equations. **86c:45013**
 Ibadov, I. V. See Napalkov, V. V., **86h:46066**
 Ioakimidis, N. I. A modification of the quadrature method for the direct numerical solution of singular integral equations. **86m:65161**
 Kanwal, R. P. See Estrada, Ricardo, **86c:45013**
 Meister, Erhard (with Speck, F.-Olme) The Moore-Penrose inverse of Wiener-Hopf operators on the half axis and the quarter plane. **86h:47035**
 Napalkov, V. V. ★ Уравнения свертки в многомерных пространствах. (Russian) [Convolution equations in multidimensional spaces] **86g:46054**
 (with Ibadov, I. V.) Systems of convolution equations in a class of analytic functions. (Russian. English and Azerbaijani summaries) **86h:46066**
 Shambayati, R. (with Zielezny, Z.) Convolution equations in spaces of distributions with one-sided bounded support. **86g:46056**
 Speck, F.-Olme See Meister, Erhard, **86h:47035**
 Staffans, Olof J. Semigroups generated by a convolution equation. **86c:45007**
 Stepanov, V. D. Characteristic properties of convolution integral operators. (Russian) **86g:47067**
 Zielezny, Z. See Shambayati, R., **86g:46056**

45E99 None of the above, but in this section

- Dshangibekov, G. An inversion formula for a two-dimensional singular integral equation. (Russian. Tajiki summary) **86h:45012**
 Frenkel, A. A Chebyshev expansion of singular integral equations with a logarithmic kernel. **86k:45012a**
 A Chebyshev expansion of singular integro-differential equations with a $\partial^2 \ln |s-t|/\partial s \partial t$ kernel. **86k:45012b**
 Sukavanam, N. A Fredholm-type theory for third-kind linear integral equations. **86b:45010**

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- Khmalashvili, G. N. The topology of invertible singular integral operators. (Russian. English and Georgian summaries) **86b:47085**
 Nguyễn Văn Mậu Regularization of polynomials in algebraic and almost algebraic operators. **86c:47002**
 Niyogi, Pradip ★ Integral equation method in transonic flow. **86k:76047**
 Phong, D. H. (with Stein, Elias M.) Singular integrals related to the Radon transform and boundary value problems. **86j:42024**
 Stein, Elias M. See Phong, D. H., **86j:42024**
 Vasilievskii, N. L. An algebra generated by an abstract singular operator and Carleman shift. (Russian. English and Georgian summaries) **86k:47044**

45Fxx Systems of linear integral equations

45F05 Systems of nonsingular linear integral equations

- Kordasde, R. A. Infinite families of integral equations in a space of families of continuous functions that converge to zero. (Russian) **86c:45006**
 Staffans, Olof J. Semigroups generated by a convolution equation. **86c:45007**

secondary classifications (45F05)

- Angell, Thomas S. (with Kress, Rainer) L^2 -boundary integral equations for the Robin problem. **86c:35035**
 Engl, Heins W. (with Lindner, E.) A combined boundary value and transmission problem arising from the calculation of eddy currents: well-posedness and numerical treatment. (German summary) **86b:78024**
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 Totov, G. N. Equivalence of a boundary value problem for a nonlinear differential equation to the problem for the corresponding integro-differential equation. (Bulgarian. French and Russian summaries) **86b:34035**

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- Agar, S. N. See Koul, C. L., **86d:45009**
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 Dwivedi, A. P. (with Kushwaha, S. S.; Gupta, R. G.) Solution of six integral equations with associated Legendre functions as kernel. **86h:45013**
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- Gupta, R. G. See Dwivedi, A. P. et al., 86c:45005 and 86h:45013
- Kalla, R. N. Dual integral equations with Fox's H -function kernel. 86c:45006
- Koul, C. L. (with Agal, S. N.) Dual series equations involving product of Jacobi polynomials. 86d:45009
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- Lal, Mange See Narain, Kuldeep et al., 86b:45011; 86f:45007 and 86i:45013
- McBride, Adam C. A distributional approach to dual integral equations of Titchmarsh type. 86d:45010
- Milla, P. L. (with Duduković, M. P.) A direct integral equation method for the solution of dual- or triple-series equations with applications to heat conduction and diffusion-reaction systems. 86j:45015
- Narain, Kuldeep (with Singh, V. B.; Lal, Mange) Triple series equations involving generalized Bateman k -functions. 86b:45011
- (with Lal, Mange) Simultaneous dual series equations involving heat polynomials. 86f:45007
- (with Lal, Mange) Simultaneous dual series equation involving generalized Bateman k -functions. 86i:45013
- Nguyễn Văn Ngọc Some results on the dual series equations. 86i:45014
- Pandey, S. S. (with Trivedi, T. N.) Certain triple integral equations involving inverse finite Mellin transforms. 86d:45011
- See also Trivedi, T. N., 86d:45012
- Ross, R. A. An integral equation arising in diffraction theory. 86m:45004
- Singh, V. B. See Narain, Kuldeep et al., 86b:45011
- Trivedi, T. N. (with Pandey, S. S.) Some dual integral equations involving Naylor's Mellin type transforms. 86d:45012
- See also Pandey, S. S., 86d:45011
- Veliev, E. I. Solution of a class of dual summation equations in diffraction theory. (Russian. English summary) 86d:45013
- secondary classifications (45F10)
- Duduković, M. P. See Milla, P. L., 86b:45139
- Kelman, Robert B. Convergence of solutions to classic dual trigonometric equations. 86a:65133
- Milla, P. L. (with Duduković, M. P.) Solution of mixed boundary value problems by integral equations and methods of weighted residuals with application to heat conduction and diffusion-reaction systems. 86b:45139
- Vasilievskii, N. L. Some algebras generated by a three-dimensional analogue of a singular operator with a Cauchy kernel. 86m:47079
- 45F15 Systems of singular linear integral equations
- Dzhuraev, A. D. The theory of some systems of singular integral equations on two-dimensional bounded domains. (Russian) 86c:45008
- 45F99 None of the above, but in this section
- Campanini, Rita Fredholm integral operators invariant with respect to congruence groups in space. (Italian. English summary) 86c:45007
- 45Gxx Nonlinear integral equations [See also 47Hxx.]
- 45G05 Singular nonlinear integral equations
- Èbanoide, T. A. An existence theorem for a nonlinear integral equation with a fixed singularity. (Russian) 86h:45014
- Pelyukh, G. P. Construction of the general solution of a class of nonlinear integro-functional equations in a neighborhood of singular points. (Russian) (See 86f:34003)
- secondary classifications (45G05)
- Delbosco, D. (with Rodino, Luigi) On the Hamiltonian flow associated to the symbol of a general pseudodifferential operator. 86f:35184
- Rodino, Luigi See Delbosco, D., 86f:35184
- Selchuk, V. N. Convergence of the collocation method and the method of mechanical quadratures for singular integral equations given on a Lyapunov contour. (Russian) 86g:65236
- 45G10 Other nonlinear integral equations
- Angell, Thomas S. Existence of solutions of multivalued Urysohn integral equations. 86j:45016
- Bai, Jin Dong Existence of exactly two solutions for a class of nonlinear integral equations in transport theory. (Chinese) (Not in MR)
- Boffi, V. C. See Spiga, G. et al., 86f:45013
- Bowden, R. L. See Spiga, G. et al., 86b:45013
- Crăciunag, P. T. See Voinea, R. P. et al., 86m:45005
- D'Ambrosio, U. See Voinea, R. P. et al., 86m:45005
- Ermakov, S. M. (with Fedorenko, N. I.) Some unbiased estimates of solutions of equations with polynomial nonlinearity. (Russian. English summary) 86i:45015
- Fedorenko, N. I. See Ermakov, S. M., 86i:45015
- Friedman, Charles N. Product integration and solution of ordinary differential equations. 86b:45012
- Guo, Da Jun Solutions of Hammerstein nonlinear integral equations and their applications. (Chinese. English summary) (Not in MR)
- Ivanov, Viktor Vladimirovich (with Vuginstein, A. È.) Continual models of developing systems. (Russian) 86h:45015
- Krall, A. M. See Voinea, R. P. et al., 86m:45005
- Krivosheina, L. E. See Voinea, R. P. et al., 86m:45005
- Milman, Mark Special factorization and Riccati integral equations. 86g:45018
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- Nurekenov, T. K. Conditions for complete continuity of Uryson operators. (Russian. Kazakh summary) 86c:45009
- Pachpatte, B. G. On a nonlinear functional integral equation in two independent variables. 86j:45017
- On a generalized Hammerstein-type integral equation. 86f:45008
- Rosa, Vladislav On certain integral equation with delay. (Russian and Slovak summaries) 86c:45010
- Spiga, G. (with Bowden, R. L.; Boffi, V. C.) On the solutions to a class of nonlinear integral equations arising in transport theory. 86b:45013
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- Wheeler, R. L. See Hannsgen, Kenneth B., 86b:45004

45M10 Stability theory

- Arino, Ovide (with Burton, Theodore A.; Haddock, John R.) Attractivité de la solution périodique d'une classe d'équations non linéaires du type Volterra. (English summary) [Attractivity of the periodic solution of a class of nonlinear Volterra equations] 86f:45018
- Botashev, A. I. See Imanaliev, M. I., 86f:34003
- Burton, Theodore A. (with Huang, Qi Chang; Mahfoud, W. E.) Liapunov functionals of convolution type. 86l:45024
- See also Arino, Ovide et al., 86f:45018
- Haddock, John R. See Arino, Ovide et al., 86f:45018
- Huang, Qi Chang See Burton, Theodore A. et al., 86l:45024
- Imanaliev, M. I. (with Botashev, A. I.) The importance of the influence of integral perturbations on the behavior of differential systems. (Russian) (See 86f:34002)
- Mahfoud, W. E. See Burton, Theodore A. et al., 86l:45024
- Panteliev, D. K. Periodic solutions of a nonlinear system of integro-differential equations of Fredholm type. (Bulgarian. English and Russian summaries) 86m:45016
- Sergeev, V. S. Estimation of the domain of attraction for a class of integro-differential equations. (Russian) (See 86j:34001)
- Staffans, Olof J. On the stability of a Volterra integral equation with a monotone nonlinearity. 86e:45018

secondary classifications (45M10)

- Amini, S. Stability analysis of methods employing reducible rules for Volterra integral equations of the first kind. 86e:65174
- Antonishin, I. O. Asymptotic behavior of the solutions of a class of integro-differential equations. (Russian) (See 86f:34002)
- Buffet, E. (with de Smedt, Ph.; Pulé, J. V.) On the dynamics of Bose-Einstein condensation. (French summary) 86f:82015
- Engler, Hans Stabilization of solutions for a class of parabolic integro-differential equations. 86h:45025
- Mahfoud, W. E. Stability theorems for an integro-differential equation. (Arabic summary) 86l:45020
- Pachpatte, B. G. Boundary value problems for integro-differential equations with deviating arguments. 86g:45023
- Pulé, J. V. See Buffet, E. et al., 86f:82015
- Pulyaev, V. F. Admissibility of certain pairs of spaces with respect to linear Volterra integral equations. (Russian) 86d:45002
- de Smedt, Ph. See Buffet, E. et al., 86f:82015
- Wheeler, R. L. Integrable resolvent operators for integro-differential equations in Hilbert space. 86b:45028
- Yang, En Hsao On asymptotic behaviour of certain integro-differential equations. 86g:45026

45M99 None of the above, but in this section

- Arino, Ovide (with Seguer, P.) Some results on the solution's behaviour at the infinity. (Russian summary) (See 86f:34003)
- Kotlyar, B. D. See Nosenko, V. I., 86f:34002
- Nosenko, V. I. (with Kotlyar, B. D.) Nonlinear oscillations described by Hammerstein equations. (Russian) (See 86f:34002)
- Seguer, P. See Arino, Ovide, 86f:34003
- Selkhasieva, K. S. An integro-differential equation with a small parameter in an electrical circuit with a triode. (Russian) (See 86m:00011)

secondary classifications (45M99)

- Canadas, Guy Speed of propagation of solutions of a linear integro-differential equation with nonconstant coefficients. 86d:45016
- Dmitrenko, E. M. (with Morgunov, B. I.; Petrov, L. F.) Calculation of essentially nonlinear oscillations of viscoelastic systems. (Russian) 86l:45018
- Filippov, I. E. A periodic problem for integro-differential equations with linear deviation of the argument. (Russian) 86h:45020
- Morgunov, B. I. See Dmitrenko, E. M. et al., 86l:45018
- Petrov, L. F. See Dmitrenko, E. M. et al., 86l:45018

45N05 Abstract integral equations, integral equations in abstract spaces

- Bainov, D. (with Myshkis, A. D.; Zakhariev, Andrei) On an abstract analog of the Bellman-Gronwall inequality. 86b:45028
- Bostanov, R. A. Application of the method of monotone operators to the study of the solvability of certain classes of linear singular integral equations in generalized Hölder spaces. (Russian) (See 86m:00011)
- Deech, Georg Wolfgang (with Grimmer, Ronald; Schappacher, W.) Some considerations for linear integro-differential equations. 86h:45038
- (with Grimmer, Ronald) Invariance and wave propagation for nonlinear integro-differential equations in Banach spaces. 86l:45025
- Grimmer, Ronald See Deech, Georg Wolfgang et al., 86h:45038 and 86l:45025
- Gripenberg, Gustaf Volterra integro-differential equations with accretive nonlinearity. 86m:45017
- Imomnazarov, B. Approximate solution of integro-operator equations of Volterra type of the first kind. (Russian) 86l:45026
- Kartasheva, L. V. The exceptional case of a singular integral equation with shift in a space of fundamental and generalized functions on an open contour. (Russian) 86e:45020
- Margulis, L. F. See Stetsenko, V. Ya., 86g:45033
- Myshkis, A. D. See Bainov, D. et al., 86b:45028
- Novodnov, V. G. On the theory of integral operators in spaces of measurable vector functions. (Russian)
- Nyaga, V. I. Conditions for the Noethericity of singular integral operators with conjugation in the case of a piecewise Lyapunov contour. (Russian) 86g:45032
- Piulennik, Ryssard (with Szufia, Stanislaw) Nonlinear Volterra integral equations in Orlicz spaces. 86e:45021
- Schappacher, W. See Deech, Georg Wolfgang et al., 86h:45038
- Stetsenko, V. Ya. (with Margulis, L. F.) Maximum principles of relative and absolute increase in the theory of linear integral equations and boundary value problems. (Russian. Tajiki summary) 86g:45033
- Sugiyama, Shohel On integral-like operator equations in a Banach space. 86d:45018
- Szufia, Stanislaw On the existence of L^p -solutions of Volterra integral equations in Banach spaces. 86e:45023
- On the existence of continuous solutions of the Urysohn integral equation in Banach spaces. 86j:45031
- See also Piulennik, Ryssard, 86e:45021
- Thieme, Horst R. Renewal theorems for linear periodic Volterra integral equations. 86b:45027
- Wheeler, R. L. Integrable resolvent operators for integro-differential equations in Hilbert space. 86b:45028
- Zakhariev, Andrei See Bainov, D. et al., 86b:45028

secondary classifications (45N05)

- Bharucha-Reid, A. T. (with Römisch, Werner) Projective schemes for random operator equations. I. Weak compactness of approximate solution measures. 86j:60144
- Duduchava, R. V. Multidimensional singular integral equations. Preliminary theorems. (Russian. English and Georgian summaries) 86b:42018
- Fedotov, V. P. The Minkowski-Farkas theorem in the theory of integral equations. (Russian. English summary) 86m:47060
- Heikkilä, Seppo (with Roach, G. F.) On equivalent norms and the contraction mapping principle. 86d:47070
- Hulbert, Douglas S. (with Reich, Simeon) Asymptotic behavior of solutions to nonlinear Volterra integral equations. 86b:45005
- Kato, Nobuyuki (with Kobayasi, Kazuo; Miyadera, Isao) On the asymptotic behavior of solutions of evolution equations associated with nonlinear Volterra equations. 86h:47089
- Kobayasi, Kazuo See Kato, Nobuyuki et al., 86h:47089
- Miyadera, Isao See Kato, Nobuyuki et al., 86h:47089
- Reich, Simeon See Hulbert, Douglas S., 86b:45005
- Roach, G. F. See Heikkilä, Seppo, 86d:47070
- Römisch, Werner See Bharucha-Reid, A. T., 86j:60144
- Szufia, Stanislaw Appendix to the paper: "An existence theorem for the Urysohn integral equation in Banach spaces" [Comment. Math. Univ. Carolin. 25 (1984), no. 1, 19-27; MR 85g:45017]. 86h:45016
- Theorems on the existence of solutions of integral and differential equations in Banach spaces. (Polish) 86f:34134

- Vogel, Johannes Lösungsbifurkation bei Hammersteinschen Operatorgleichungen mit vektorwertiger Parameterabhängigkeit. [Bifurcation of solutions to Hammerstein operator equations, with dependence on vector-valued parameters] 86b:47108
- Volkman, Peter Équations différentielles ordinaires dans les espaces des fonctions bornées. [Ordinary differential equations in bounded function spaces] 86g:34093

45P05 Integral operators [See also 47Axx, 47Bxx, 47G05.]

- Donig, J. A note on the invertibility of generalized Wiener-Hopf operators. (German and Russian summaries) 86b:45029
- Mkhitarian, S. M. Spectral relationships for the integral operators generated by a kernel in the form of a Weber-Sonin integral, and their application to contact problems. 86b:45039
- Sakhnovich, L. A. Eigensubspaces of an operator with a difference kernel. (Russian) 86g:45034
- Vogel, Johannes Zur Lösungsbifurkation bei Hammersteinschen Operatorgleichungen mit vektorwertiger Parameterabhängigkeit. [On the bifurcation of solutions in Hammerstein operator equations with vector-valued parameter dependence] 86b:45030

secondary classifications (45P05)

- Estrada, Ricardo (with Kanwal, R. P.) Distributional solutions of singular integral equations. 86g:45013
- Gohberg, Israel (with Kaashoek, M. A.; van Schagen, F.) Noncompact integral operators with semiseparable kernels and their discrete analogues: inversion and Fredholm properties. 86b:47090
- Janson, S. (with Peetre, Jaak) Higher order commutators of singular integral operators. 86a:47024
- Kaashoek, M. A. See Gohberg, Israel et al., 86b:47090
- Kanwal, R. P. See Estrada, Ricardo, 86g:45013
- Koul, C. L. See Srivastava, Hari M. et al., 86j:45014
- Krawietz, A. Geschichtsfunktion und Zustandsbeschreibung bei Flüssigkeiten mit Gedächtnis. [History functional and description of state for fluids with memory] 86h:76005
- Krupnik, N. Ya. ★ Банаховы алгебры с символом и сингулярные интегральные операторы. (Russian) [Banach algebras with a symbol, and singular integral operators] 86j:47071
- Labuda, Ivo Le domaine maximal d'extension d'un opérateur intégral. (English summary) [The extended domain of an integral operator] 86k:47029
- Latsabidze, T. I. Singular integral operators with complex conjugation on piecewise smooth lines. (Russian. English and Georgian summaries) 86h:45010
- Nguyễn Văn Mậu Nonthericity of a class of linear operators in a Banach space. (Russian) 86g:47011
- Novitskiĭ, I. M. Representation of kernels of integral operators by bilinear series. (Russian) 86g:47039
- Oinarov, R. (with Otelbaev, M.) Criteria for the Lipschitz property and contractibility of nonlinear integral operators. (Russian) 86c:47088
- Otelbaev, M. See Oinarov, R., 86c:47088
- Peetre, Jaak See Janson, S., 86a:47024
- Pleshchinskii, N. B. Some identities for integral operators with a generalized power kernel. (Russian) 86a:45003
- Raina, R. K. See Srivastava, Hari M. et al., 86j:45014
- van Schagen, F. See Gohberg, Israel et al., 86b:47090
- Sin'ko, G. I. On the spectral theory of a first-order integro-differential operator. (Russian) 86c:45009
- Srivastava, Hari M. (with Koul, C. L.; Raina, R. K.) A class of convolution integral equations. 86j:45014
- Sunder, V. S. Algebra of kernels. 86j:47076

46-XX FUNCTIONAL ANALYSIS [For manifolds modeled on topological linear spaces, see 57N20, 58Bxx.]

46-01 Elementary exposition; textbooks

- Akilov, G. P. See Kantorovich, L. V., 86m:46001
- Bleyer, A. See Preuss, W. et al., 86h:46003a and 86h:46003b
- Conway, John B. ★ A course in functional analysis. 86h:46001
- Dupras, Jacques ★ La théorie des distributions et ses applications. (French) [Distribution theory and its applications] 86j:46001
- (Fortet, Robert) See Dupras, Jacques, 86j:46001
- Friedlander, F. G. ★ Introduction to the theory of distributions. 86h:46002
- Kantorovich, L. V. (with Akilov, G. P.) ★ Функциональный анализ. (Russian) [Functional analysis] 86m:46001
- (Oleinik, O. A.) See Shilov, G. E., 86j:46003
- (Palamodov, V. P.) See Shilov, G. E., 86j:46003
- (Paneyakh, B. P.) See Shilov, G. E., 86j:46003
- Pisarevskii, B. M. See Trenogin, V. A. et al., 86i:46001
- Preuß, Heinrich See Preuss, W. et al., 86h:46003a and 86h:46003b
- Preuss, W. (with Bleyer, A.; Preuß, Heinrich) ★ Distributionen und Operatoren. (German) [Distributions and operators] 86h:46003a
- (with Bleyer, A.; Preuß, Heinrich) ★ Distributionen und Operatoren. (German) [Distributions and operators] 86h:46003b
- Prodanov, Ivan ★ Увод във функционалния анализ. Част I. (Bulgarian) [Introduction to functional analysis. Part I] 86j:46002
- Shilov, G. E. ★ Математический анализ. (Russian) [Mathematical analysis] 86j:46003

- Soboleva, T. S. See Trenogin, V. A. et al., 86i:46001
- Terpugov, A. F. ★ Функциональный анализ. (Russian) [Functional analysis] 86j:46004
- Trenogin, V. A. (with Pisarevskii, B. M.; Soboleva, T. S.) ★ Задачи и упражнения по функциональному анализу. (Russian) [Problems and exercises in functional analysis] 86i:46001

secondary classifications (46-01)

- Chou, Chin Ch'eng ★ Séries de Fourier et théorie des distributions. (French) [Fourier series and distribution theory] 86g:42001
- Desin, A. A. ★ Уравнения, операторы, спектры. (Russian) [Equations, operators, spectra] 86h:00004
- (Dieudonné, Jean) See Chou, Chin Ch'eng, 86g:42001
- Folland, Gerald B. ★ Real analysis. 86k:28001
- Goldberg, Seymour ★ Unbounded linear operators. 86k:47001
- Günsler, Hans ★ Integration. (German) [Integration] 86k:28002
- (Kufner, Alois) See Rektorys, Karel, 86h:49001
- Luecking, Daniel H. (with Rubel, Lee A.) ★ Complex analysis. 86d:30002
- Posthoff, Christian (with Woschni, E.-G.) ★ Funklationaltransformationen der Informationstechnik. (German) [Functional transformations of information technique] 86f:44002
- Rektorys, Karel ★ Variationsmethoden in Mathematik, Physik und Technik. (German) [Variational methods in mathematics, physics and technology] 86h:49001
- Rubel, Lee A. See Luecking, Daniel H., 86d:30002
- Sadovnichii, V. A. ★ Теория операторов. (Russian) [Operator theory] 86m:47001
- Schwartz, Hans-Ulrich ★ Banach lattices and operators. 86h:46034
- Тунянскиĭ, N. T. ★ Седловые функции. (Russian) [Saddle functions] 86m:90178
- Woschni, E.-G. See Posthoff, Christian, 86f:44002

46-02 Advanced exposition (research surveys, monographs, etc.)

- Ayupov, Sh. A. See Sarymsakov, T. A. et al., 86h:46004
- Chilin, V. I. See Sarymsakov, T. A. et al., 86h:46004
- Kaplan, Samuel ★ The bidual of $C(X)$. I. 86k:46001
- Khadzhiev, Dzh. See Sarymsakov, T. A. et al., 86h:46004
- Sarymsakov, T. A. (with Ayupov, Sh. A.; Khadzhiev, Dzh.; Chilin, V. I.) ★ Упорядоченные алгебры. (Russian) [Ordered algebras] 86h:46004
- Zaanen, A. C. ★ Riesz spaces. II. 86h:46001

secondary classifications (46-02)

- (Connes, Alain) See Takai, Hiroshi, 86e:58002
- Jarosz, Krzysztof ★ Perturbations of Banach algebras. 86k:46074
- Natsume, Toshikazu See Takai, Hiroshi, 86e:58002
- Takai, Hiroshi (with Natsume, Toshikazu) A. Connes' noncommutative differential geometry. (Japanese) 86e:58002

46-03 Historical (must also be assigned at least one classification number from Section 01)

secondary classifications (46-03)

- Beresanskii, Yu. M. (with Gorbachuk, V. I.) Development of functional analysis at the Institute of Mathematics of the Academy of Sciences of the Ukrainian SSR. (Russian) 86f:01057
- Birkhoff, Garrett (with Kreyszig, Erwin) The establishment of functional analysis. (French and German summaries) 86f:01024
- Butzer, Paul L. (with Nessel, R. J.; Stark, E. L.) Eduard Helly (1884-1943), in memoriam. 86h:01070
- Gorbachuk, V. I. See Beresanskii, Yu. M., 86f:01057
- (Helly, Eduard) See Netuka, Ivan, 86e:01025 and Butzer, Paul L. et al., 86h:01070
- Koshi, Shozo 50 years of real function theory—influence of the theory of integrals. (Japanese) 86f:01028
- Kreyszig, Erwin See Birkhoff, Garrett, 86f:01024
- Nessel, R. J. See Butzer, Paul L. et al., 86h:01070
- Netuka, Ivan (with Veselý, Jiří) Eduard Helly, convexity and functional analysis. (Czech) 86e:01025
- Peetre, Jaak The theory of interpolation spaces—its origin, prospects for the future. 86a:46097
- Stark, E. L. See Butzer, Paul L. et al., 86h:01070
- Vesely, Jiří See Netuka, Ivan, 86e:01025
- Anniversary:
Death of Helly, Eduard See Butzer, Paul L. et al., 86h:01070

46-06 Proceedings, conferences, etc.

- (Araki, Huzihiro) See Operator algebras and their connections with topology and ergodic theory, 86f:46001
- (Beauzamy, B.) See Seminar: Geometry of Banach spaces, 86d:46001 and Seminar: Functional analysis, 86m:46002
- (Camkrelidse, R. V.) See Current problems in mathematics. Newest results, 86j:46005
- (Krivine, Jean-Louis) See Seminar: Geometry of Banach spaces, 86d:46001 and Seminar: Functional analysis, 86m:46002
- (Maurey, B.) See Seminar: Geometry of Banach spaces, 86d:46001 and Seminar: Functional analysis, 86m:46002
- (Moore, C. C.) See Operator algebras and their connections with topology and ergodic theory, 86f:46001
- (Nikolskii, S. M.) See Studies in the theory of differentiable functions of several variables and its applications, 86f:46002 and Studies in the theory of functions of several real variables and the approximation of functions, 86k:46002
- (Pisier, G.) See Seminar: Functional analysis, 86m:46002

- (Sobolev, S. L.) *See* Studies in the theory of functions of several real variables and the approximation of functions, 86k:46003
- (Strătilă, Ş.) *See* Operator algebras and their connections with topology and ergodic theory, 86f:46001
- (Voiculescu, D.) *See* Operator algebras and their connections with topology and ergodic theory, 86f:46001

Birthdays:

- Nikol'skii, S. M. *★* Studies in the theory of functions of several real variables and the approximation of functions. (Russian) 86k:46002

- Bugtemi *★* Operator algebras and their connections with topology and ergodic theory. 86f:46001

Conference:

- Operator algebras, connections with topology and ergodic theory *★* Operator algebras and their connections with topology and ergodic theory. 86f:46001

- Current problems in mathematics. Newest results *★* Современные проблемы математики. Новейшие достижения. Том 27. (Russian) [Current problems in mathematics. Newest results. Vol. 27] 86j:46006

- Izvestiya Akademii Nauk i Tekhniki *★* Современные проблемы математики. Новейшие достижения. Том 27. (Russian) [Current problems in mathematics. Newest results. Vol. 27] 86j:46006

- Operator algebras and their connections with topology and ergodic theory *★* Operator algebras and their connections with topology and ergodic theory. 86f:46001

- Paris *★* Séminaire de géométrie des espaces de Banach. Tome I, II. (French) [Seminar on the geometry of Banach spaces. Vol. I, II] 86d:46001

Seminar:

- Functional analysis *★* Séminaire d'analyse fonctionnelle 1983/1984. (French) [Seminar on functional analysis 1983/1984] 86m:46002

- Geometry of Banach spaces *★* Séminaire de géométrie des espaces de Banach. Tome I, II. (French) [Seminar on the geometry of Banach spaces. Vol. I, II] 86d:46001

- Israel, geometrical aspects of functional analysis *★* Israel seminar on geometrical aspects of functional analysis. 86m:46003

- Studies in the theory of differentiable functions of several variables and its applications *★* Исследования по теории дифференцируемых функций многих переменных и ее приложениям. X. (Russian) [Studies in the theory of differentiable functions of several variables and its applications. X] 86f:46002

- Studies in the theory of functions of several real variables and the approximation of functions *★* Studies in the theory of functions of several real variables and the approximation of functions. (Russian) 86k:46002

secondary classifications (46-06)

- (Apostol, C.) *See* Dilation theory, Toeplitz operators, and other topics, 86d:47002
- (Helson, H.) *See* Spectral theory of linear operators and related topics, 86d:47003
- (Pearcy, Carl M.) *See* Dilation theory, Toeplitz operators, and other topics, 86d:47002
- (Power, S. C.) *See* Operators and function theory, 86f:47001
- (Szőkefalvi-Nagy, Béla) *See* Dilation theory, Toeplitz operators, and other topics, 86d:47002 and Spectral theory of linear operators and related topics, 86d:47003
- (Trèves, F.) *See* Pseudodifferential operators and applications, 86f:35003
- (Vasilescu, F.-H.) *See* Spectral theory of linear operators and related topics, 86d:47003
- (Voiculescu, D.) *See* Dilation theory, Toeplitz operators, and other topics, 86d:47002 and Spectral theory of linear operators and related topics, 86d:47003

Conference:

- Operator theory *★* Dilation theory, Toeplitz operators, and other topics. 86d:47002
- Dilation theory, Toeplitz operators, and other topics *★* Dilation theory, Toeplitz operators, and other topics. 86d:47002

- Hercules *★* Dilation theory, Toeplitz operators, and other topics. 86d:47002

- Lancaster *★* Operators and function theory. 86f:47001

- NATO Advanced Study Institute:

- Operators and function theory *★* Operators and function theory. 86f:47001

- Notre Dame, Ind. *★* Pseudodifferential operators and applications. 86f:35003

- Operators and function theory *★* Operators and function theory. 86f:47001

- Proceedings of Symposia in Pure Mathematics *★* Pseudodifferential operators and applications. 86f:35003

- Pseudodifferential operators and applications *★* Pseudodifferential operators and applications. 86f:35003

- Spectral theory of linear operators and related topics *★* Spectral theory of linear operators and related topics. 86d:47003

Symposium:

- Pseudodifferential operators and Fourier integral operators with applications to partial differential equations *★* Pseudodifferential operators and applications. 86f:35003

- Timişoara *★* Dilation theory, Toeplitz operators, and other topics. 86d:47002

46Axx Topological linear spaces

secondary classifications (46Axx)

- Defant, Andreas A duality theorem for locally convex tensor products. 86j:46008
- Morales, Luisa A. Holomorphic functions on holomorphic inductive limits and on the strong duals of strict inductive limits. 86f:46047

46A05 Locally convex spaces

- Cassa, Antonio A necessary and sufficient condition for the separateness of an inductive limit of reflexive Banach spaces. (Italian summary) 86g:46001

- Fernández García, Antonio Francisco Prevarieties of locally convex spaces. (Spanish. English summary) 86h:46005

- Floret, Klaus Continuous norms on locally convex strict inductive limit spaces. 86d:46002

- Juñek, Heinz *★* Locally convex spaces and operator ideals. 86b:46002

- Kanik, Lothar *★* Die d -Dimension lokalkonvexer Räume. [The d -dimension of locally convex spaces] 86j:46006

- Kera, Kazuo *See* Kitsunesaki, Naoki et al., 86c:46001

- Kitsunesaki, Naoki (with Kera, Kazuo; Terao, Yutaka) On unordered ultra Baire-like spaces. 86c:46001

- Maalyuchenko, V. K. *See* Pilchko, A. N., 86m:46004

- Pilchko, A. N. (with Maalyuchenko, V. K.) Quasireflexive locally convex spaces without Banach subspaces. (Russian) 86m:46004

- Radenović, Stojan A hereditary property of HM-spaces. 86m:46005

- Revilla Ramos, Miguel Angel Sequence spaces. (Spanish) (See 86h:00009a)

- Takahashi, Yasuji On strongly L^p -imbeddable locally convex spaces. 86g:46002

- Terao, Yutaka *See* Kitsunesaki, Naoki et al., 86c:46001

- Zădu, Radu On some convexity properties. 86a:46001

secondary classifications (46A05)

- Acharya, Kriahna A property of equicontinuous sets in $(E \otimes F)$. 86e:46065

- Aragona, Jorge On two properties of Zorn type for locally convex spaces. 86k:46071

- Barroso, Jorge Alberto *★* Introduction to holomorphy. 86g:46065

- Blondia, C. The Radon-Nikodým property for locally convex Suslin spaces. 86h:46072

- Canela, Miguel Angel Some sequential properties of the weak* dual of a Banach space. (Romanian summary) 86g:46018

- Defant, Andreas (with Floret, Klaus) Localization and duality of topological tensor products. 86m:46069

- De Grande-De Kimpe, N. Projective locally K -convex spaces. 86h:46129

- Dymont, E. Z. Recursive metrizable of enumerated topological spaces and bases of effective linear topological spaces. (Russian) 86d:03044

- Flood, Joe Free topological vector spaces. 86b:46120

- Floret, Klaus *See* Defant, Andreas, 86m:46069

- Hollstein, Ralf Tensor sequences and inductive limits with local partition of unity. 86m:46070

- Hueso, José L. *See* Motos, Joaquín, 86m:46006

- Lé Khal Hôl The tensor product of absolutely representational systems. (Russian) 86j:46069

- Mazan, Michel Topologies polaires-propres sur un espace vectoriel. (English summary) [Polar-proper topologies on a vector space] 86k:46007

- Motos, Joaquín (with Hueso, José L.) A note on m -barrelled spaces and dual locally complete spaces. (Spanish. English summary) 86m:46006

- Neumann, Michael M. Uniform boundedness and closed graph theorems for convex operators. 86m:46008

- Pombo, Dinamérico P., Jr. On polynomial classification of locally convex spaces. 86f:46048

- Serb, Ioan Strongly proximinal sets in abstract spaces. 86e:41052

- Vilimovsky, J. Locally convex spaces not containing normed-like subspaces. 86g:46109

46A06 Metrizable topological linear spaces and their duals (F -, DF -spaces, etc.)

- Dilworth, S. J. The dimension of Euclidean subspaces of quasinormed spaces. 86b:46003

- Drewnowski, Lech Quasicomplements in F -spaces. 86a:46002

- Kalton, N. J. Locally complemented subspaces and L_p -spaces for $0 < p < 1$. 86h:46006

- Lang, Harald On sums of subspaces in topological vector spaces and an application in theoretical tomography. 86d:46003

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- Gupta, P. M. See Shankar, Hari, 86e:46035
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- Malgonde, S. P. (with Saxena, Rajendra Kumar) A representation of generalized Meijer-Laplace transformable generalized functions. 86d:46036
- Manandhar, R. P. (with Debnath, L.) Representation of functions as the Post-Widder inversion operator of generalized functions. 86a:46042
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- Méndez Pérez, José Manuel The generalized n -dimensional integral Hankel-Clifford transformation. (Spanish. English summary) (See 86h:00009a)
- Misra, O. P. See Lavoine, Jean, 86b:46065
- Oliveira, J. Silva The Fourier transform in the space of ultradistributions with compact support. (Portuguese. English summary) (See 86g:00012b)
- Pathak, Ram Shankar A theorem of Hardy and Titchmarsh for generalized functions. 86d:46038
- On Hankel transformable spaces and a Cauchy problem. 86d:46037
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- Shankar, Hari (with Gupta, P. M.) On the Fourier transforms of the convolution of Schwartz distributions. 86e:46035
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- Tiwari, A. K. Stieltjes transformable generalized functions. 86h:46069
- Vladimirov, V. S. (with Drozhzhinov, Yu. N.; Zav'yalov, B. I.) Theorems of Tauberian type for generalized functions. (Russian) 86f:46042
- Zav'yalov, B. I. See Drozhzhinov, Yu. N., 86e:46034 and Vladimirov, V. S. et al., 86f:46042

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- Arnal, D. (with Cortet, J.-C.) Nilpotent Fourier transform and applications. 86h:17014
- Artimadias, Nicolas K. On the absolute convergence of Fourier series of distributions. 86g:42012
- Benedicks, Michael The support of functions and distributions with a spectral gap. 86j:42017
- Bhosale, S. D. (with More, S. V.) On Marchi-Zgrablich transformation of generalized functions. 86k:44009
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- Goyal, A. N. See Chaturvedi, V. K., 86b:44004a and 86b:44004b
- Hertle, Alexander Continuity of the Radon transform and its inverse on Euclidean space. 86e:44004a
- Lall, A. B. B. See Verma, T. N., 86f:44009
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- More, S. V. See Bhosale, S. D., 86k:44009
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- Poulkou, Anthippi Weak transforms and their limits. 86m:42016
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- Tătaru, Gr. N. See Constantinescu, I. N., 86f:45010
- Verma, T. N. (with Lall, A. B. B.) Analyticity of distributional generalized Laguerre transform. 86f:44009
- Zav'yalov, B. I. See Drozhzhinov, Yu. N., 86k:46058
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46F15 Hyperfunctions, analytic functionals [See also 32A25, 32A45, 32C35, 58G07.]

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- Meril, A. Fonctionnelles analytiques à porteur non borné sur \mathbb{C} . [Analytic functionals with unbounded carriers on \mathbb{C}] 86h:46070
- de Roever, J. W. Hyperfunctional singular support of ultradistributions. 86d:46039
- Saburi, Yutaka Fundamental properties of modified Fourier hyperfunctions. 86k:46065
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- Kashiwara, Masaki ★ Systems of microdifferential equations. 86b:58113
- Korshunov, M. K. Products of hyperfunctions. (Russian) 86e:46032

- Marti, J.-A. Quelques théorèmes d'unicité sur les hyperfonctions analytiques par rapport à une (ou plusieurs) variable(s). [Some uniqueness theorems for analytic hyperfunctions with respect to one (or several) variable(s)] 86h:32008
- (McFaden, H. H.) See Zharinov, V. V., 86i:32011
- (Monteiro Fernandes, Teresa) See Kashiwara, Masaki, 86b:58113
- Ōaku, Toshinori A new formulation of local boundary value problem in the framework of hyperfunctions. I. 86e:58135
- Ōshima, Toshio A definition of boundary values of solutions of partial differential equations with regular singularities. 86d:35009
- Pirou, André Microdistributions de Fourier classiques dans le cadre analytique réel. (English summary) [Classical Fourier microdistributions in the real analytic case] 86a:58106
- Schlichtkrull, Henrik ★ Hyperfunctions and harmonic analysis on symmetric spaces. 86g:22021
- Yosida, Kōzoku ★ Operational calculus. 86b:44018
- Zampieri, Giuseppe Algebraic conditions on partial differential operators for existence of microlocal fundamental solutions with singularities carried by proper cones. (Italian summary) 86e:35007
- Zharinov, V. V. Distributive lattices and their applications in complex analysis. 86i:32011

46F20 Distributions as boundary values of analytic functions

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- Carmichael, Richard D. (with Richters, Stephen P.) Distributional boundary values in \mathcal{D}'_{L^p} . V. 86a:46043
- Ermatorov, U. See Akhmedov, Sh. A., 86c:46047
- Liu, Shang Ping Distributions in $\mathcal{D}'(\mathbb{R}^n)$ as boundary values of harmonic functions. 86b:46066
- Pathak, Ram Shankar Tempered ultradistributions as boundary values of analytic functions. 86b:46067
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- Carmichael, Richard D. H^p spaces in tubes and distributional boundary values. 86j:32008
- de Roever, J. W. Hyperfunctional singular support of ultradistributions. 86d:46039

46F25 Distributions on infinite-dimensional spaces [See also 58C35.]

- Ansemil, J. M. (with Perrot, B.) C^∞ functions in infinite dimension and linear partial differential equations with constant coefficients. 86a:46044
- Perrot, B. See Ansemil, J. M., 86a:46044

secondary classifications (46F25)

- Bleeker, P. M. Analytic continuation of massless Feynman amplitudes in the Schwartz space \mathcal{S}' . 86a:81024
- Hida, Takeyuki Generalized Brownian functionals and stochastic integrals. 86d:60064
- Khrennikov, A. Yu. Some applications of Keller's convergence structure to the nonlinear functional analysis. 86j:47089
- A theory of generalized measures on a Hilbert space. (Russian) 86k:46069
- Kurbyko, I. F. Some equations with pseudodifferential operators in an infinite-dimensional space. (Russian) 86c:35157
- Misra, M. D. Convergence of Feynman integrals. 86a:81025
- Ouerdane, Habib Dualité et opérateurs de convolution dans certains espaces de fonctions "entières nucléaires de type exponentiel". [Duality and convolution operators in certain spaces of nuclear entire functions of exponential type] 86c:46051
- Sugita, Hiroshi Sobolev spaces of Wiener functionals and Malliavin's calculus. 86j:60135
- Tarski, Jan Functional delta-functions and Fourier transforms. 86a:81032
- Thomas, Erik G. F. The theorem of Bochner-Schwartz-Godement for generalised Gel'fand pairs. 86d:22003

46F99 None of the above, but in this section

- Craven, B. D. Generalized functions for applications. 86g:46058

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- Brüning, E. A new class of Wick powers of generalized free fields. 86c:81043
- Christ, Michael Characterization of H^1 by singular integrals: necessary conditions. 86g:43007b
- Durán, Ricardo G. Parabolic maximal functions and potentials of distributions in H^p . 86c:46052
- Felix, Rainer Solvability of differential equations with linear coefficients of nilpotent type. 86k:22024
- Freedon, W. Spherical spline interpolation—basic theory and computational aspects. 86c:41002
- Gali, I. M. Integral representation of G -invariant positive-definite kernels on a group G^N . 86h:43006
- Gruman, Lawrence Solutions of difference equations with nonconstant coefficients. 86f:32006
- Kowalski, Jan Krzysztof A method of approximation of spaces of generalized functions. 86m:65056
- Nazarov, V. I. A first-order nonlinear differential equation in Roumieu spaces. (Russian. English summary) 86b:34007
- Petsche, Hans-Joachim Approximation of ultradifferentiable functions by polynomials and entire functions. 86d:26034

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Ziemian, Bogdan Distributions invariant under compact Lie groups. **86a:22016**

46Gxx Measures, integration, derivative, holomorphy (For integration on infinite-dimensional spaces, see 28C20; for nonlinear functional analysis, see 58-XX, especially 58Cxx.)

Areshkin, G. Ya. (with Koroleva, L. G.) On the theory of the Kolmogorov integral. (Russian) **86h:46071**

Daletskii, Yu. L. (with Fomin, S. V.) ★ Меры и дифференциальные уравнения в бесконечномерных пространствах. (Russian) [Measures and differential equations in infinite-dimensional spaces] **86g:46059**

Fomin, S. V. See Daletskii, Yu. L., **86g:46059**

Koroleva, L. G. See Areshkin, G. Ya., **86h:46071**

46G05 Derivatives

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Biacino, Loredana Derivatives of fractional order of functions in $W^{s,p}(\mathbb{R}^n)$. (Italian. English summary) **86g:46060**

Caraman, Petru Differentiability of quasiconformal mappings in abstract Wiener spaces. (See **86f:00008**)

Castañeda Bravo, Fernando Functions of a real variable with values in a convergence vector space. I. Derivatives. (Spanish. English summary) **86k:46066**

Fonte, G. On the weak semidifferential calculus: a reply to J. Pian and C. S. Sharma. **86m:46042b**

Kirov, Nikolai K. Generic Fréchet differentiability of convex operators. **86g:46061**

Kriegel, Andreas A convenient setting of differential calculus in locally convex spaces. **86j:46039**

Oh, Seung Jae Gâteaux differentiable points with special representation. **86c:46048**

Pian, J. (with Sharma, C. S.) The weak semidifferentiability in quantum mechanics. **86m:46042a**

Schechter, Martin Differentiation in abstract spaces. **86g:46062**

Sharma, C. S. See Pian, J., **86m:46042a**

Stegall, Charles Gâteaux differentiation of functions on a certain class of Banach spaces. **86a:46045**

Zhivkov, N. V. Generic Gâteaux differentiability of locally Lipschitzian functions. **86c:46046**

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Averbukh, V. I. The Asplund-Rockafellar-Gregory theorem and pseudotopologies. (See **86f:54003**)

Castañeda Bravo, Fernando Functions of a real variable with values in a convergence vector space. I. Derivatives. (Spanish. English summary) (See **86g:00012b**)

Havárneanu, T. Existence for the dynamic programming equation of control diffusion processes in Hilbert space. **86j:49063**

Ioffe, Alexandre D. On subdifferentiability spaces. **86g:90124**

Erratum to: "Approximate subdifferentials and applications. I. The finite-dimensional theory" [Trans. Amer. Math. Soc. **281** (1984), no. 1, 389-416; MR **84m:49029**]. **86d:49023**

Khrushchikov, A. Yu. An existence theorem for a solution of a stochastic differential equation in a locally convex space. (Russian) **86k:60104**

Kusraev, A. G. (with Kutateladze, S. S.) ★ Субдифференциальное исчисление. (Russian) [Subdifferential calculus] **86g:58013**

Kutateladze, S. S. See Kusraev, A. G., **86g:58013**

Németh, A. B. Sequential regularity and the directional differentiability of convex operators are equivalent. **86h:58016**

Rendi, B. Differentiable functions defined by commutative Banach algebras. (Romanian summary) **86h:46068**

Silia, D. B. Subdifferentials of convex functions, and integrals of multivalued mappings. (Russian) **86b:58009**

Sokolovskii, V. B. The second boundary value problem without initial conditions for the wave equation with the Lévy-Laplace operator in a Hilbert ball. (Russian) **86m:35152**

Asymptotic behavior of the solution of the Neumann problem in a ball of the space \mathbb{R}^n as $n \rightarrow \infty$. (Russian) **86f:35170**

Zajček, L. On the Fréchet differentiability of distance functions. **86i:46020**

46G10 Vector-valued measures and integration [See also 28Bxx, 46B22.]

Andrews, Kevin T. Universal Pettis integrability. **86j:46040**

Blondia, C. The Radon-Nikodým property for locally convex Suslin spaces. **86h:46073**

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On the sequential approximation of scalarly measurable functions by simple functions. **86b:46068**

de María González, José L. (with Rodríguez-Salinas, Baltasar) The "heart" of a vector function. (Spanish. English summary) **86j:46041**

Mitter, Sanjoy K. (with Young, Stephen K.) Integration with respect to operator-valued measures with applications to quantum estimation theory. **86c:46036**

Morales, Pedro See Dobrákov, Ivan, **86h:46073**

Niemi, Hannu Grothendieck's inequality and minimal orthogonally scattered dilations. **86f:46043**

Oharu, Shinnosuke See Hashimoto, Kazuo, **86b:46069**

Okada, Susumu A tensor product vector integral. **86f:46044**

Ricker, Werner Representation of vector-valued functions by Laplace transforms. **86c:46037**

Rodríguez-Salinas, Baltasar See de María González, José L., **86j:46041**

Smith, W. V. (with Tucker, Don H.) Weak integral convergence theorems and operator measures. **86c:46049**

Swartz, Charles Correction to: "Integrating bounded functions for the Dobrákov integral" [Math. Slovaca **33** (1983), no. 2, 141-144; MR **85b:46049**]. **86f:46045**

Talagrand, Michel Pettis integral and measure theory. **86j:46042**

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Weber, Hans Pointwise sequential compactness and weak compactness in spaces of contents. **86k:46067**

Young, Stephen K. See Mitter, Sanjoy K., **86c:46036**

secondary classifications (46G10)

All, S. A. Capacities as sublinear maps with values in a Riesz space. **86j:28004**

Anantharaman, R. (with Garg, K. M.) The properties of a residual set of vector measures. **86d:28014**

Barcelo Taberner, B. Representation of operators on $L^{(p)}(\mu)$ -spaces by vector measures. (Spanish) **86c:47038**

Barcenas, Diómedes (with Panchapagesan, T. V.) A generalization of Fubini's theorem for Banach algebra-valued measures. (Spanish summary) **86b:28006**

Bhaskara Rao, K. P. S. (with Bhaskara Rao, M.) ★ Theory of charges. **86f:28006**

Bhaskara Rao, M. See Bhaskara Rao, K. P. S., **86f:28006**

Blondia, C. The completeness of L_E^1 and webbed spaces. **86j:46007**

Congost, Maria Assumpta A note on the construction of measures taking their values in a Banach space with basis. **86c:28021**

Dinh Quang Lu'u Applications of set-valued Radon-Nikodým theorems to convergence of multivalued L^1 -amarts. **86b:60084**

The Radon-Nikodým property and convergence of amarts in Fréchet spaces. (French summary) **86k:60083a**

Amarts of finite order and Pettis Cauchy sequences of Bochner integrable functions in locally convex spaces. (French summary) **86k:60083b**

Eggle, L. Convergence of adapted sequences of Pettis-integrable functions. **86j:60117**

Frangos, Nikos E. On convergence of vector valued pramarts and subpramarts. **86h:60097**

Garg, K. M. See Anantharaman, R., **86d:28014**

Graves, William H. (with Ruess, Wolfgang) Compactness and weak compactness in spaces of compact-range vector measures. **86k:46036**

Jefferies, Brian Conditional expectation for operator-valued measures and functions. **86d:28015**

Kakibara, Yûichirô Semivariation and operator semivariation of Hilbert space valued measures. **86a:28009**

Hilbert $B(H)$ -modules with applications. V. **86j:46047b**

Karpenko, S. F. Application of the discrete-iteration method to the solution of the Uryson integral equation. (Russian) **86f:45017**

Kiel, Heins-Albrecht Compacité faible de parties décomposables de L_E^1 . (English summary) [Weak compactness of decomposable subsets of L_E^1] **86k:46054**

Klein, Ch. (with Rolewicz, Stefan) On Riemann integration of functions with values in topological linear spaces. **86g:28016**

Kundu, S. K. See Paul, P. K., **86a:28011**

Kuo, Jân T'ai A strict topology on $L^\infty(\Omega, \Sigma, \mu, X)$. **86b:46055**

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Oh, Seung Jae Gâteaux differentiable points with special representation. **86c:46048**

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Okada, Susumu Vector Daniell integrals. (Russian summary) **86a:28014**

Panchapagesan, T. V. See Barcenas, Diómedes, **86b:28006**

Paul, P. K. (with Kundu, S. K.) On regularity of vector-valued measures. **86a:28011**

Pucci, Patrizia (with Vitillaro, Giuseppe) A representation theorem for Aumann integrals. **86d:28016**

Riddle, Lawrence H. (with Saab, E.) On functions that are universally Pettis integrable. **86i:28012**

Rodríguez-Salinas, Baltasar Integration of functions with values in a locally convex space with respect to infinite measures. III, IV. (Spanish. English summary) **86c:28030**

Rolewicz, Stefan See Klein, Ch., **86g:28016**

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Stegall, Charles The Radon-Nikodým property in Banach spaces. I. **86i:46022**

Some structure results for $L_1(X)$. **86i:46040**

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Werner, Dirk Extreme points in spaces of operators and vector-valued measures. **86k:47033**

46G12 Measures and integration on abstract linear spaces [See also 28Cxx.]

Becker, Richard Mesures coniques sur les espaces de Banach ou sur leurs duals. (English summary) [Conical measures on Banach spaces or on their duals] **86h:46074**

Mesures coniques sur un espace de Banach ou son dual. [Conical measures on a Banach space or its dual] **86h:46068**

Bell, Denis A quasi-invariance theorem for measures on Banach spaces. **86j:46043**

Bluhachak, G. I. (with Kozak, P. P.) Wiener measure in the space of continuous functions of an infinite number of variables. (Russian. English summary) **86f:46046**

Bogachev, V. I. Three problems of Aronszajn from measure theory. (Russian) **86g:46063**

Negligible sets in locally convex spaces. (Russian) **86g:46064**

Chang, Kun Soo (with Johnson, Gerald W.; Skoug, D. L.) Necessary and sufficient conditions for the Fresnel integrability of certain classes of functions. **86b:46070**

Gavriliv, O. S. (with Kozak, P. P.) A multiple abstract Wiener integral and its properties. (Russian. English summary) **86h:46075**

Johnson, Gerald W. See Chang, Kun Soo et al., **86b:46070**

- Kharasishvili, A. B. Invariant measures in Hilbert space. (Russian. English and Georgian summaries) **86i:46046**
- Khrennikov, A. Yu. A theory of generalized measures on a Hilbert space. (Russian) **86k:46069**
- Kozak, P. P. See Bilushchak, G. I., **86f:46046** and Gavryliv, O. S., **86h:46075**
- Romanov, V. A. Passage to the limit with measures in a Hilbert space with respect to various types of convergence. (Russian) **86a:46047**
- Asymptotic behavior of H -continuous and H -differentiable measures in Hilbert space. (Russian) **86m:46043**
- Skaletskii, A. G. Uniformly continuous selections in Fréchet spaces. (Russian) **86k:46070**
- Skoug, D. L. See Chang, Kun Soo et al., **86b:46070**

secondary classifications (46G12)

- Al-Hussaini, A. N. Differentiation of measures related to stochastic processes. **86m:60097**
- Chobanyan, S. A. See Vakhaniya, N. N. et al., **86j:80014**
- Christensen, Jens Peter Reus Geometric measure theory in infinite-dimensional Banach spaces. (See **86m:46003**)
- Cruzeiro, Ana Bela Unicité de solutions d'équations différentielles sur l'espace de Wiener. (English summary) [Uniqueness of the solutions of differential equations on the Wiener space] **86h:60119**
- Dorogovtsev, A. Ya. Convergence of certain integrals with respect to a Gaussian measure in a Hilbert space. (Russian. English summary) **86j:60009**
- Gol'dshein, M. Sh. Differentiation of Wiener integrals with respect to a parameter. (Russian) **86a:28017**
- Hida, Takeyuki Generalized Brownian functionals and stochastic integrals. **86d:60064**
- Khrennikov, A. Yu. Some applications of Keller's convergence structure to the nonlinear functional analysis. **86j:47089**
- See also Smolyanov, O. G., **86h:80011**
- Kondrat'ev, Yu. G. Dirichlet operators and the smoothness of solutions of infinite-dimensional elliptic equations. (Russian) **86j:35155**
- Linde, Werner ★ Infinitely divisible and stable measures on Banach spaces. **86h:60006**
- Malinskii, S. M. Admissible shifts of the Cauchy measure. (Russian) **86c:60067**
- Misiewicz, Jolanta Characterization of the elliptically contoured measures on infinite-dimensional Banach spaces. **86m:60008**
- Nakanishi, Shisau The Bochner integral for functions with values in certain ranked vector spaces and the Radon-Nikodým theorem. **86c:28022**
- Nguyễn Duy Tiến On the convergence of stable measures in a Banach space. **86m:60009**
- Romero Romero, Juan Luis Order of a cylindrical probability. (Spanish. English summary) (See **86h:00009a**)
- Rudinakii, I. I. Integral representation of even-positive definite functions in nuclear spaces. (Russian) **86e:46039**
- Shimomura, Hiroaki Rotationally-quasi-invariant measures on the dual of a Hilbert space. **86c:28023**
- Smolyanov, O. G. (with Khrennikov, A. Yu.) The central limit theorem for generalized measures on infinite-dimensional spaces. (Russian) **86h:80011**
- Swartz, Charles Fubini's theorem for tensor product measures. **86b:28008**
- Stencel, Rafal On the lower tail of stable seminorm. (Russian summary) **86i:60015**
- Takahashi, Yasuji Kernels associated with cylindrical measures on locally convex spaces. **86b:60009**
- Remarks on Xia's inequality and Chevet's inequality concerned with cylindrical measures. **86h:28012**
- Tarieladze, V. I. See Vakhaniya, N. N. et al., **86j:80014**
- Tudor, Constantin On the martingale problem in abstract Wiener space. **86b:60132**
- Vakhaniya, N. N. (with Tarieladze, V. I.; Chobanyan, S. A.) ★ Вероятностные распределения в банаховых пространствах. (Russian) [Probability distributions in Banach spaces] **86j:60014**
- Ylänen, Karl Vector measures on the projections of a W^* -algebra. **86b:46103**

46G15 Lifting theory [See also 28A51.]

- Seda, Anthony Karel Integral representation of linear functionals on spaces of sections. **86a:46048**

secondary classifications (46G15)

- Babiker, A. G. A. G. (with Heller, G.; Strauss, Werner) On a lifting invariance problem. **86g:28012**
- Heller, G. See Babiker, A. G. A. G. et al., **86g:28012**
- Loert, V. Some remarks on invariant liftings. **86g:28013**
- Strauss, Werner See Babiker, A. G. A. G. et al., **86g:28012**

46G20 Infinite-dimensional holomorphy [See also 32-XX, 58B12, 58C10.]

- Aragona, Jorge On two properties of Zorn type for locally convex spaces. **86k:46071**
- Aron, Richard M. (with Hervés, Carlos) Weakly sequentially continuous analytic functions on a Banach space. **86k:46072**
- Barroso, Jorge Alberto ★ Introduction to holomorphy. **86g:46065**
- Cardia, Marli See Pombo, Dinamérico P., Jr., **86g:46067**
- Chae, Soo Bong ★ Holomorphy and calculus in normed spaces. **86j:46044**
- Colombeau, J.-F. (with Galé, J. E.) Holomorphic generalized functions. **86b:46071**
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- Israel, R. B. (with Phelps, R. R.) Some convexity questions arising in statistical mechanics. **86a:46010**
- Kakihara, Yôichirô Hilbert $B(H)$ -modules with applications. IV. **86j:46047a**
- Kallianpur, G. (with Wolpert, R.) Infinite-dimensional stochastic differential equation models for spatially distributed neurons. **86f:60074**
- Kalyushny, A. A. See Beresanskii, Yu. M., **86a:43012**
- Klein, Erwin (with Thompson, Anthony C.) ★ Theory of correspondences. **86a:90012**
- Knowles, Gareth J. (with Saeks, Richard) State space theory—a Banach space approach. **86h:93001**
- Kusraev, A. G. Order-continuous functionals in Boolean-valued models of set theory. (Russian) **86c:03048**
- Kutateladze, S. S. Caps and faces of operator sets. (Russian) **86g:47086**
- Kwiatkowski, Włodzisław Application of the methods of partially ordered spaces to the analysis of probabilistic models of discrete dynamical systems. (Polish. English and Russian summaries) **86h:93063**
- Lang, Harald On sums of subspaces in topological vector spaces and an application in theoretical tomography. **86d:46003**
- Lawson, Jimmie D. See Hofmann, Karl H., **86a:22010**
- Levin, V. L. Lipschitz pre-orders and Lipschitz utility functions. (Russian) **86h:90014**
- Lieb, Elliott H. See Chayes, J. T. et al., **86c:82003**
- López Rosendo, José L. The Dini and Stone-Weierstrass properties: announcement of results. (Spanish) (Not in MR)
- Lüch, W. Spin-statistics theorem for fields with arbitrary high energy behaviour. **86h:81067**
- Lyubetskii, V. A. (with Gordon, E. I.) Boolean extensions of uniform structures. (Russian) **86d:03050**
- Mączyński, M. J. An abstract derivation of the inequality related to Heisenberg's uncertainty principle. **86k:81013**
- Madajczyk, J. L. See Białynicki-Birula, Iwo, **86h:28023**
- Maddocks, John H. Restricted quadratic forms and their application to bifurcation and stability in constrained variational problems. **86f:49111**
- Marks, Robert J., II See Goldberg, Marc, **86c:93056**
- van der Meer, C. V. M. See Greenberg, William et al., **86k:82094**
- Meinguet, Jean Surface spline interpolation: basic theory and computational aspects. **86k:41016**
- Mercier, Bertrand Résolution de problèmes bien posés dans les espaces de mesures: application à l'équation de transport stationnaire. (English summary) [Solution of well-posed problems in measure spaces: application to the stationary transport equation] **86f:82063**
- Milnes, Paul The Bohr almost periodic functions do not form a linear space. **86d:43009**
- Mitchell, Wesley E. The α -regular representation of $\mathbb{Z} \times \mathbb{Z}$. **86h:22008**
- Murray, John Time-varying systems and crossed products. **86f:93042**
- Myung, Hyo Chul An isosensor product of iso-Hilbert spaces. **86j:81069**
- Nagel, Alexander (with Stein, Elias M.; Wainger, Stephen) Balls and metrics defined by vector fields. I. Basic properties. **86k:46049**
- Neidhardt, Hagen See Baumgärtel, Hellmut et al., **86c:81041**
- Neumann, Holger The description of preparation and registration of physical systems and conventional probability theory. **86f:81006**
- N'Guérékata, Gaston Mandata Almost-periodicity in linear topological spaces and applications to abstract differential equations. **86c:34125**
- (Olefinik, O. A.) See Sánchez-Palencia, Enrique, **86c:35011**
- Osborne, A. R. (with Bergamasco, L.) The small-amplitude limit of the spectral transform for the periodic Korteweg-de Vries equation. (Italian and Russian summaries) **86k:35143**
- Petrov, A. D. On the state space in the vector lattice description of spin- $\frac{1}{2}$. (Russian summary) **86i:81016**
- Deformation of the positive cone as a possible approach to quantization. (Russian summary) **86j:81058**
- Phelps, R. R. See Israel, R. B., **86a:46010**
- Pier, Jean-Paul ★ Amenable locally compact groups. **86a:43001**
- Piron, C. See Foullis, D. J. et al., **86f:81012**
- Pisier, G. Remarques sur les classes de Vapnik-Chervonenkis. (English summary) [Remarks on the Vapnik-Chervonenkis classes] **86h:60010**
- Posiewnik, Andrzej Category theoretical construction of the figure of states. **86g:81008**
- Potra, F.-A. (with Pták, Vlastimil) ★ Nondiscrete induction and iterative processes. **86i:65003**
- Pták, Vlastimil See Potra, F.-A., **86i:65003**
- Randall, C. H. See Foullis, D. J. et al., **86f:81012**
- Rehberg, J. See Baumgärtel, Hellmut et al., **86c:81041**
- Rieckers, A. (with Ullrich, M.) Condensed Cooper pairs and quasiparticles in a gauge invariant finite temperature BCS-model. **86c:82017**
- (with Ullrich, M.) Extended gauge transformations and the physical dynamics in a finite temperature BCS-model. **86j:82015**
- Riedel, Norbert Some remarks on quantum logics and ordered vector spaces. (See **86b:82001**)
- Saeks, Richard See Knowles, Gareth J., **86h:93001**
- Sánchez-Palencia, Enrique ★ Неоднородные среды и теория колебаний. (Russian) [Nonhomogeneous media and vibration theory] **86c:35011**
- Santos, Emilio See Gadella, M., (86h:00009b)
- Sarason, Donald Remotely almost periodic functions. **86b:42014**
- Scutaru, Horia See Ion, D. B., **86k:81140**
- Stein, Elias M. See Nagel, Alexander et al., **86k:46049**
- Stragier, G. (with Vansevenant, A.) Stability and equilibrium of infinite classical systems. **86f:82013**
- Sujan, Stefan Some functionals on sets of stationary codes. **86i:28016**
- Takeda, Masayoshi (r, p) -capacity on the Wiener space and properties of Brownian motion. **86f:60101**
- (Tartar, L.) See Sánchez-Palencia, Enrique, **86c:35011**
- Temam, R. ★ Navier-Stokes equations and nonlinear functional analysis. **86f:35152**
- Thomas, Erik G. F. The theorem of Bochner-Schwartz-Godement for generalised Gelfand pairs. **86d:22003**
- Thompson, Anthony C. See Klein, Erwin, **86a:90012**
- Tian, Gang On the mountain-pass lemma. **86j:58024**
- Ullrich, M. See Rieckers, A., **86c:82017** and **86j:82015**
- Vansevenant, A. See Stragier, G., **86f:82013**
- Wainger, Stephen See Nagel, Alexander et al., **86k:46049**
- Wakita, Hitoshi Mathematical framework of quantum electrodynamics. **86b:81145a**
- Solutions of the renormalized Tomonaga-Schwinger equation. **86b:81145b**
- Webb, G. F. Dynamics of populations structured by internal variations. **86j:92030**
- Weil, Wolfgang See Goodey, Paul, **86f:52008**
- Werner, Reinhard Frank Physical uniformities on the state space of nonrelativistic quantum mechanics. **86g:81010**
- Winnink, M. Some remarks on the Gibbs phase rule. **86f:82020**
- Winter, B. B. On the multivariate Helly theorem. **86i:60012**
- Wolpert, R. See Kallianpur, G., **86f:60074**
- Yamasaki, Shuichiro Extension of the notion of normal products and Wick's theorem to finite temperature. **86b:81046**
- Zaldman, S. ★ Almost-periodic functions in abstract spaces. **86j:42018**
- (Zhikov, V. V.) See Sánchez-Palencia, Enrique, **86c:35011**
- Zweifel, P. F. See Greenberg, William et al., **86k:82094**

46P05 Functional analysis over fields other than \mathbb{R} or \mathbb{C} ; non-Archimedean functional analysis [See also 12J25, 32E27.]

- Bayod, José M. (with Martínez-Maurica, Javier) Reflexivity and self-duality in valued spaces. (Spanish) **86b:46128**
- Bhaskaran, R. Banach space of Lipschitz functions over valued fields. (Italian summary) **86j:46073**
- Calvo, Adina K -théorie des anneaux ultramétriques. (English summary) [K -theory of ultrametric rings] **86k:46105**
- De Grande-De Kimpe, N. Projective locally K -convex spaces. **86b:46129**
- Dominguez, Jesús M. The Gelfand subalgebra of the ring of continuous functions with values in a non-Archimedean valued field. (Spanish) **86g:46111**
- Fuentes Villalba, Fernanda Hahn-Banach theorems for topological vector spaces over a class of topological fields. (Spanish. English summary) **86j:46074**
- Jain, Suman (with Singh, Bijendra) Non-Archimedean Banach almost periodic functions depending on parameters. **86c:46066**
- Kataar, A. K. Duals of non-Archimedean vector-valued function spaces. **86m:46073**
- Khan, H. Z. See Mursaleen, **86c:46067**
- Kiyosawa, Takemitsu Banach's closed range theorem and Fredholm alternative theorem in non-Archimedean Banach spaces. **86b:46130**
- Martinez-Maurica, Javier Characterizations of normable topological vector spaces over a discrete topological field. (Spanish. English summary) (See **86h:00009a**) (with Pérez García, Cristina) On a general theorem of Krein-Mil'man. **86k:46106**
- See also Bayod, José M., **86b:46128**
- Morgado, Maria C. F. See Pinto, Diomara et al., **86c:46068**
- Mursaleen (with Khan, H. Z.) Non-Archimedean spaces of bounded sequences all of whose invariant means are equal. **86c:46067**
- Pallaschke, D. (with Urbanaki, Ryszard) On linear functionals in modular spaces over a field with valuation. (Russian summary) **86k:46107**
- Pérez García, Cristina See Martinez-Maurica, Javier, **86k:46106**
- Pinto, Diomara (with Regal, Ivone; Morgado, Maria C. F.) An extension of a theorem of J. van Tiel. (Portuguese) **86c:46068**
- Pombo, Dinamérico P., Jr. A non-Archimedean [Archimedean] analogue of the Alaoglu-Bourbaki theorem. **86b:46131**
- Regal, Ivone See Pinto, Diomara et al., **86c:46068**
- van Rooij, A. C. M. Non-Archimedean Banach algebras. (See **86h:00009a**)
- Schikhof, W. H. Non-Archimedean differentiation. (See **86h:00009a**)
- Singh, Bijendra See Jain, Suman, **86c:46066**
- Soares, Maria Zoraida M. Costa Non-Archimedean Nachbin spaces. **86g:46112**
- Srivastava, J. K. Space of analytic functions of several variables over non-Archimedean fields. **86i:46080**
- Urbanaki, Ryszard See Pallaschke, D., **86k:46107**
- secondary classifications (46P05)
- Boech, Siegfried (with Güntzer, U.; Remmert, R.) ★ Non-Archimedean analysis. **86b:32031**
- Charnes, A. (with Song, T.) The extreme point characterization of semi-infinite dual non-Archimedean balls. (German summary) **86d:90080**
- Duponcheel, Luc Non-Archimedean (uniformly) continuous measures on homogeneous spaces. **86f:28024**
- Non-Archimedean improper measures on homogeneous spaces. **86m:11076**
- Escassut, Alain Maximum principle for analytic elements and Lubin-Hensel's theorem in $H(D)[Y]$. **86b:32020**
- Correction: "Transcendence order over \mathbb{Q}_p in \mathbb{C}_p " [J. Number Theory **16** (1983), no. 3, 395-402; MR **84j:10047**]. **86c:11054**
- Güntzer, U. See Boech, Siegfried et al., **86b:32031**
- Heffets, D. B. p -adic oscillatory integrals and wave front sets. **86h:22017**
- Madrecki, Andrzej On Sazonov type topology in p -adic Banach space. **86j:60010**
- Mira Ros, José Manuel The extension property in p -normed spaces. (Spanish) **86k:46008**
- Prolla, João B. Best simultaneous approximation. **86d:41025**
- Remmert, R. See Boech, Siegfried et al., **86b:32031**
- Schramm, Ruben Quasiconformality and invertibility of transformations in non-Archimedean vector spaces. **86i:11057**
- Song, T. See Charnes, A., **86d:90080**
- Urbanaki, Ryszard Some analogon of Minkowski functional and its applications to the modular spaces. (Russian summary) **86j:46013**
- Vishik, M. M. Non-Archimedean spectral theory. (Russian) **86f:11094**

46Q05 Nonstandard functional analysis [See also 03Hxx.]

secondary classifications (46Q05)

- Krupa, Andrzej (with Zawissa, Bogdan) Applications of ultrapowers in analysis of unbounded selfadjoint operators. (Russian summary) **86h:47029**
- Kusraev, A. G. (with Nehse, Reinhard) Extension of convex operators. (Russian) **86h:90079**
- Nehse, Reinhard See Kusraev, A. G., **86h:90079**
- Radenović, Stojan A hereditary property of HM-spaces. **86m:46005**
- Sims, Brailey ★ "Ultra"-techniques in Banach space theory. **86h:46032**
- Takeuchi, Yu Nonstandard functions and distribution theory. (Spanish. English summary) **86c:46045**
- Tokarev, E. V. The notion of indistinguishability and the p -Mazur property in Banach spaces. (Russian) **86k:46026**
- Zawissa, Bogdan See Krupa, Andrzej, **86h:47029**

46R05 Constructive functional analysis [See also 03Fxx.]

Julian, William ε -continuity and monotone operations. **86d:46075**

secondary classifications (46R05)

- Bridges, Douglas Operator ranges, integrable sets, and the functional calculus. **86i:47020**
- Pour-El, Marian Boykan (with Richards, Ian) L^p -computability in recursive analysis. **86f:03102**
- Richards, Ian See Pour-El, Marian Boykan, **86f:03102**

47-XX OPERATOR THEORY**47-01 Elementary exposition; textbooks**

- Bondarenko, B. A. ★ Операторные алгоритмы в дифференциальных уравнениях. (Russian) [Operator algorithms in differential equations] **86d:47001**
- Deimling, K. ★ Nonlinear functional analysis. **86j:47001**
- Goldberg, Seymour ★ Unbounded linear operators. **86k:47001**
- Sadovnichii, V. A. ★ Теория операторов. (Russian) [Operator theory] **86m:47001**

secondary classifications (47-01)

- Akilov, G. P. See Kantorovich, L. V., **86m:46001**
- Conway, John B. ★ A course in functional analysis. **86h:46001**
- Desin, A. A. ★ Уравнения, операторы, спектры. (Russian) [Equations, operators, spectra] **86h:00004**
- Kantorovich, L. V. (with Akilov, G. P.) ★ Функциональный анализ. (Russian) [Functional analysis] **86m:46001**
- Lyantse, V. È. (with Storozh, O. G.) ★ Методы теории неограниченных операторов. (Russian) [Methods of the theory of unbounded operators] **86k:47002**
- Pisarevskii, B. M. See Trenogin, V. A. et al., **86i:46001**
- Schwartz, Hans-Ulrich ★ Banach lattices and operators. **86h:46034**
- Soboleva, T. S. See Trenogin, V. A. et al., **86i:46001**
- Storozh, O. G. See Lyantse, V. È., **86k:47002**
- Terpugov, A. F. ★ Функциональный анализ. (Russian) [Functional analysis] **86j:46004**
- Trenogin, V. A. (with Pisarevskii, B. M.; Soboleva, T. S.) ★ Задачи и упражнения по функциональному анализу. (Russian) [Problems and exercises in functional analysis] **86i:46001**

47-02 Advanced exposition (research surveys, monographs, etc.)

- Lyantse, V. È. (with Storozh, O. G.) ★ Методы теории неограниченных операторов. (Russian) [Methods of the theory of unbounded operators] **86k:47002**
- Storozh, O. G. See Lyantse, V. È., **86k:47002**

secondary classifications (47-02)

- Baumgärtel, Hellmut (with Wollenberg, M.) ★ Mathematical scattering theory. **86c:47006a**
- (with Wollenberg, M.) ★ Mathematical scattering theory. **86c:47006b**
- Bukhgeim, A. L. ★ Уравнения Вольтерра и обратные задачи. (Russian) [Volterra equations and inverse problems] **86b:35193**
- (Gohberg, Israel) See Krein, M. G., **86m:00014**
- (Jacob, Andrei) See Krein, M. G., **86m:00014**
- Jørgensen, Palle E. T. (with Moore, Robert T.) ★ Operator commutation relations. **86i:22006**
- Krein, M. G. ★ Topics in differential and integral equations and operator theory. **86m:00014**
- Moore, Robert T. See Jørgensen, Palle E. T., **86i:22006**
- Wollenberg, M. See Baumgärtel, Hellmut, **86c:47006a** and **86c:47006b**
- Zaanen, A. C. ★ Riesz spaces. II. **86b:46001**

47-03 Historical (must also be assigned at least one classification number from Section 01)

secondary classifications (47-03)

- Birkhoff, Garrett (with Kreyszig, Erwin) The establishment of functional analysis. (French and German summaries) **86f:01024**
- Kreyszig, Erwin See Birkhoff, Garrett, **86f:01024**

47-06 Proceedings, conferences, etc.

- (Apostol, C.) See Dilation theory, Toeplitz operators, and other topics, **86d:47002**
- (Helson, H.) See Spectral theory of linear operators and related topics, **86d:47003**
- (Maksudov, F. G.) See Spectral theory of operators, **86c:47001** and Spectral theory of operators and its applications, **86h:47001**
- (Pearcy, Carl M.) See Dilation theory, Toeplitz operators, and other topics, **86d:47002**
- (Power, S. C.) See Operators and function theory, **86f:47001**
- (Săkefalvi-Nagy, Béla) See Dilation theory, Toeplitz operators, and other topics, **86d:47002** and Spectral theory of linear operators and related topics, **86d:47003**
- (Văilescu, F.-H.) See Spectral theory of linear operators and related topics, **86d:47003**
- (Voiculescu, D.) See Dilation theory, Toeplitz operators, and other topics, **86d:47002** and Spectral theory of linear operators and related topics, **86d:47003**
- Conference:
- Operator theory ★ Dilation theory, Toeplitz operators, and other topics. **86d:47002**
- Dilation theory, Toeplitz operators, and other topics ★ Dilation theory, Toeplitz operators, and other topics. **86d:47002**
- Herculanu ★ Dilation theory, Toeplitz operators, and other topics. **86d:47002**
- Lancaster ★ Operators and function theory. **86f:47001**
- NATO Advanced Study Institute:
- Operators and function theory ★ Operators and function theory. **86f:47001**
- Operators and function theory ★ Operators and function theory. **86f:47001**
- Spectral theory of linear operators and related topics ★ Spectral theory of linear operators and related topics. **86d:47003**
- Spectral theory of operators ★ Спектральная теория операторов. Вып. 4. (Russian) [Spectral theory of operators. No. 4] **86c:47001**
- Spectral theory of operators and its applications ★ Спектральная теория операторов и ее приложения. Вып. 5. (Russian) [Spectral theory of operators and its applications. No. 5] **86h:47001**
- Timişoara ★ Dilation theory, Toeplitz operators, and other topics. **86d:47002**

secondary classifications (47-06)

- (Beauzamy, B.) See Seminar: Functional analysis, **86m:46002**
- (Krivine, Jean-Louis) See Seminar: Functional analysis, **86m:46002**
- (Maurey, B.) See Seminar: Functional analysis, **86m:46002**
- (Pisier, G.) See Seminar: Functional analysis, **86m:46002**
- (Trèves, F.) See Pseudodifferential operators and applications, **86f:35003**
- Notre Dame, Ind. ★ Pseudodifferential operators and applications. **86f:35003**
- Proceedings of Symposia in Pure Mathematics ★ Pseudodifferential operators and applications. **86f:35003**
- Pseudodifferential operators and applications ★ Pseudodifferential operators and applications. **86f:35003**
- Seminar:
- Functional analysis ★ Séminaire d'analyse fonctionnelle 1983/1984. (French) [Seminar on functional analysis 1983/1984] **86m:46002**
- Symposium:
- Pseudodifferential operators and Fourier integral operators with applications to partial differential equations ★ Pseudodifferential operators and applications. **86f:35003**

47Axx Single linear operators: general theory

secondary classifications (47Axx)

- Vishik, M. M. Non-Archimedean spectral theory. (Russian) **86f:11094**
- 47A05 General (adjoints, conjugates, products, inverses, domains, ranges, etc.)
- Allakhverdiev, Dah. È. Necessary and sufficient conditions for continuity and the closability of linear operators. (Russian) **86c:47001**
- Babaeva, A. È. See Shafiev, R. A., **86h:47003**
- Bastero, J. (with Cuartero Ruiz, Bienvenide) Extension of bounded linear mappings between p -normal spaces. (Spanish. English summary) **86j:47002**
- Cuartero Ruiz, Bienvenide See Bastero, J., **86j:47002**
- Du, Hong Ke On the ω -condition number of a linear operator on a Hilbert space. (Chinese. English summary) **86k:47003**
- Galshtun, I. V. Asymptotic properties of linear actions of a Banach space. (Russian. English summary) **86k:47004**
- Harte, Robin Spectral projections. **86c:47001**
- Ionescu, Ioan Romeo (with Roşca, Ioan) A variational proof of Friedrichs' extension theorem. **86f:47002**
- Kokebaev, B. K. (with Otelbaev, M.; Shynbekov, A. N.) On questions of extension and restriction of operators. (Russian) **86b:47001**
- Lee, Sung J. Infinitely many nonhomogeneous conditions. **86g:47002**
- Nguyễn Văn Mậu Regularization of polynomials in algebraic and almost algebraic operators. **86c:47002**
- Ôta, Shôichi Closed linear operators with domain containing their range. **86e:47002**
- Otelbaev, M. See Kokebaev, B. K. et al., **86b:47001**
- Pogorzalet, Anna Controllability of ill-determined systems with right invertible operators. **86m:47002**
- Rendi, B. See Rendi, Dorina, **86h:47002**
- Rendi, Dorina (with Rendi, B.) On a generalized inverse matrix. (Romanian summary) **86h:47002**
- Roşca, Ioan See Ionescu, Ioan Romeo, **86f:47002**
- Shafiev, R. A. (with Babaeva, A. È.) Pseudoinversion of selfadjoint operators in Banach spaces. (Russian. English and Azerbaijani summaries) **86h:47003**
- Shynbekov, A. N. See Kokebaev, B. K. et al., **86b:47001**
- Szász, Árpád (with Szász, G.) Multilinear relations. **86j:47003**
- Szász, G. See Szász, Árpád, **86j:47003**

- Umarov, S. R. Some spaces of infinite order and their applications to operator equations. (Russian) **86b:47003**
 Wacker, Hans-Dieter Über die Verallgemeinerung eines Satzes von Kato. [On the generalization of a theorem of Kato] **86b:47004**
 Zubov, V. M. Generalized inversion of closed normally solvable operators. (Russian. English summary) **86b:47002**

secondary classifications (47A05)

- Barvínek, Erich Antiprojectors with applications in the spectral theory. **86m:15006**
 Belletot, Steven F. Local reflexivity of normed spaces, operators, and Fréchet spaces. **86a:46011**
 Blot, Joël Le théorème du rang en dimension infinie. (English summary) [The rank theorem in infinite dimension] **86m:58025**
 Bridges, Douglas Operator ranges, integrable sets, and the functional calculus. **86i:47020**
 Cho, Yeol Je See White, Albert, Jr., **86b:46007**
 Davidenko, D. F. The direct method of variation of the parameter for inversion of linear operators. (Russian) **86g:65112**
 Delanghe, R. Decomposable systems of differential operators and generalized inverses. **86j:47044**
 Echemer, Jörg Spectral decompositions and decomposable multipliers. **86g:47045**
 Fleming, R. J. (with Jamison, R. J.) Commutative ranges of analytic functions in Banach algebras. **86b:46076**
 Furuta, Takayuki On the polar decomposition of an operator. **86d:47027**
 Applications of the polar decomposition of an operator. **86d:47028**
 Grabner, Sandy Transitive vector spaces of bounded operators. **86c:47060**
 Holub, J. R. On perturbation of operators with complemented range. **86b:47024**
 Hudson, R. L. (with Ion, P. D. F.; Parthasarathy, Kalyanapuram Rangachari) Time-orthogonal unitary dilations and noncommutative Feynman-Kac formulae. II. **86g:46094**
 Ion, P. D. F. See Hudson, R. L. et al., **86g:46094**
 Jamison, R. J. See Fleming, R. J., **86b:46076**
 Kiyosawa, Takemitsu Banach's closed range theorem and Fredholm alternative theorem in non-Archimedean Banach spaces. **86b:46130**
 Lindsay, J. M. A family of operators with everywhere dense graphs. **86i:47052**
 McCabe, T. F. A note on iterates that are contractions. **86b:47038**
 Neidinger, Richard (with Rosenthal, Haskell P.) Norm-attainment of linear functionals on subspaces and characterizations of Tauberian operators. **86f:46013**
 Parthasarathy, Kalyanapuram Rangachari See Hudson, R. L. et al., **86g:46094**
 Rao, Calyampuli Radhakrishna (with Yanai, Haruo) Generalized inverse of linear transformations: a geometric approach. **86h:15004**
 Rosenthal, Haskell P. See Neidinger, Richard, **86f:46013**
 Saina, Desiré Michel Opérateurs à image fortement fermée. [Operators with strongly closed range] **86j:47090**
 Song, Man-Suk The weighted generalized inverse of a linear operator and regularization. **86j:47013**
 Speck, F.-Olme On Kreĭn factorization in Banach spaces, associated Wiener-Hopf operators and an estimate by Devinatz and Shinbrot. **86j:47037**
 White, Albert, Jr. (with Cho, Yeol Je) Linear mappings on linear 2-normed spaces. **86b:46007**
 Yanai, Haruo See Rao, Calyampuli Radhakrishna, **86h:15004**

47A10 Spectrum, resolvent

- Albrecht, Ernst (with Vasilescu, F.-H.) Semi-Fredholm complexes. **86i:47001**
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47B35 Toeplitz operators, Wiener-Hopf operators [See also 45P05, 47G05 for other integral operators.]

- Ahern, P. R. (with Clark, D. N.) On eigenvalues in the essential spectrum of a Toeplitz operator. **86h:47032**
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- Lemberg, H. Opérateurs T -Toeplitz et commutant d'une contraction de classe C_1 . [T -Toeplitz operators and the commutant of a C_1 -contraction] (See **86m:46002**)
- Long, John J. See Cowen, Carl C., **86b:47034**
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- Lê Dũng M'u (with Dĩ Bá Khang) Asymptotic regularity and the strong convergence of the proximal point algorithm. **86m:47080**
- Pacella, Filomena Extensions of topological degree theory. (See **86i:00019**)
- Siddiqi, Ataulah (with Siddiqui, A. H.) Nonexpansive type mappings in 2-pre-Hilbert spaces. **86d:47066**
- Siddiqui, A. H. See Siddiqi, Ataulah, **86d:47066**

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- Banáš, József (with Rusin, József) On existence and characterization of solutions of some functional-differential and functional-integral equation of neutral type. (Russian and Polish summaries) **86f:34135**
- van Dulst, D. Some more Banach spaces with normal structure. **86d:46015**
- Duong Minh Duc Measure of noncompactness and spectral theory. **86k:47005**
- Kucumow, T. Weak convergence theorems for nonexpansive mappings and semigroups in Banach spaces with Opial's property. **86c:47065**
- Lau, Anthony To Ming Semigroup of nonexpansive mappings on a Hilbert space. **86m:47085**
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- Some further results on periodic solutions of certain higher order nonlinear differential equations. **86c:34077**
- Rusin, József See Banáš, József, **86f:34135**

47H10 Fixed-point theorems [See also 34C29, 54H25, 55M20, 58C30.]

- Arino, Ovide (with Gautier, S.; Penot, J.-P.) A fixed point theorem for sequentially continuous mappings with application to ordinary differential equations. **86g:47069**
- Bae, Jong Sook Fixed points on noncompact and nonconvex sets. **86c:47058**
- Fixed point theorems of generalized nonexpansive maps. **86c:47073**
- Bajaj, Nirmala See Sharma, P. L., **86c:47063**
- Beauzamy, B. (with Enflo, P.) Théorème de point fixe et d'approximation. [Fixed-point and approximation theorems] **86m:47081**
- Borwein, J. M. (with Sims, Brailey) Nonexpansive mappings on Banach lattices and related topics. **86c:47059**
- Bose, R. K. See Sahani, D., **86f:47030**
- Bhī Cōng Cu'g'ng Some fixed point theorems for multifunctions in topological vector spaces (announcement of results). (Russian summary) **86d:47067**
- Casali, Emanuele (with Maluta, Elisabetta) Fixed points of uniformly Lipschitzian mappings in spaces with uniformly normal structure. **86m:47082**
- Cellina, Arrigo A fixed point theorem for subsets of L^1 . **86g:47070**
- Čirić, Ljubomir A fixed-point theorem in reflexive Banach spaces. **86g:47071**
- Ding, Xia Ping Fixed-point theorems for continuous random operators. (Chinese) **86a:47052**
- Dominguez Benavides, Tomás Generic fixed-point index for non- α -expansive mappings. (Spanish. English summary) **86g:47072**
- Edelestein, Michael (with Kiang, Mo Tak) A common fixed-point theorem in reflexive locally uniformly convex Banach spaces. **86g:47073**
- Emmanuele, Giovanni Asymptotic behavior of iterates of nonexpansive mappings in Banach spaces with Opial's condition. **86j:47079**
- Enflo, P. See Beauzamy, B., **86m:47081**
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- Filin, V. A. See Fedyuk, V. F., **86m:47083**
- Fisher, Brian See Sessa, Salvatore, **86j:47084**
- Fournier, G. (with Górniewicz, L.) Survey of some applications of the fixed point index. **86k:47046**
- Fryskowski, Andrzej The generalization of Cellina's fixed point theorem. **86b:47096**
- Gautier, S. See Arino, Ovide et al., **86g:47069**
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- See also Fournier, G., **86k:47046**

- Guay, Merle D. (with Singh, K. L.) Convergence of sequence of iterates for a pair of mappings. **86j:47080**
- Guo, Da Jun On some fixed-point theorems for cone mappings. (Chinese) (Not in MR) Fixed points and eigenelements of a class of concave and convex operators. (Chinese) (Not in MR)
- Ha, Chung Wei Extensions of two fixed point theorems of Ky Fan. **86k:47047**
- Hadžić, Olga Some applications of a fixed point theorem for multivalued mappings in topological vector spaces. (Serbo-Croatian summary) **86h:47084**
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- Huang, Chun Chao Fixed points of order convex maps in ordered Banach spaces. **86g:47075**
- Imdad, M. See Khan, Mohd. Saeed, **86e:47080**
- Isac, G. Cônes localement bornés et théorèmes de point fixe dans des espaces de Fréchet. [Locally bounded cones and fixed-point theorems in Fréchet spaces] **86h:47085**
- Ji, Guo Zhen A fixed-point theorem for monotone decreasing condensing mappings. (Chinese) (Not in MR)
- Khan, Mohd. Saeed (with Imdad, M.) Fixed points of certain involutions in Banach spaces. **86e:47080**
- Khatakevich, V. A. (with Sholkhet, D. M.) Fixed points of analytic operators in a Banach space and their applications. (Russian) **86h:47086**
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- Kiang, Mo Tak See Edelstein, Michael, **86g:47073**
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- Nonexpansive retracts and fixed points of nonexpansive mappings in the Cartesian product of n Hilbert balls. **86j:47081**
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- Lau, Anthony To Ming Semigroup of nonexpansive mappings on a Hilbert space. **86m:47085**
- Le Van Hot A fixed point theorem. **86k:47048**
- Lim, Teck Cheong On fixed point stability for set-valued contractive mappings with applications to generalized differential equations. **86m:47086**
- Lin, Pei Kee Unconditional bases and fixed points of nonexpansive mappings. **86c:47075**
- (with Sternfeld, Y.) Convex sets with the Lipschitz fixed point property are compact. **86c:47074**
- López G., Darío An extension of the Rothe fixed-point theorem. (Spanish) **86c:47076**
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- Pasicki, Lech Nonempty intersection and minimax theorems. (Russian summary) **86c:47078**
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- Petryshyn, W. V. Some results on multiple positive fixed points of multivalued condensing maps. **86c:47061**
- Qin, Cheng Lin Positive fixed points of quasihomogeneous mappings. (Chinese) (Not in MR)
- Radu, Viorel On the contraction principle in Menger spaces. **86c:47062**
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- Rzepecki, Bogdan Some fixed point theorems for multivalued mappings. **86d:47088a**
- Addendum to the paper: "Some fixed point theorems for multivalued mappings". **86d:47088b**
- A fixed point theorem of Krasnosel'skii type for multivalued mappings. **86j:47083**
- Sahani, D. (with Bose, R. K.) On asymptotic centres and fixed point theorems for set-valued nonexpansive mappings. **86f:47030**
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- Sessa, Salvatore (with Fisher, Brian) Common fixed points of two mappings in Banach spaces. **86j:47084**
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- Sims, Brailey See Borwein, J. M., **86c:47059**
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- Turinici, Mihail Volterra functional equations via projective techniques. **86b:47101**
- Ülger, A. A note on the fixed point theorem of Rothe. **86m:47088**
- Węrski, S. On the fixed point index of noncompact mappings. **86b:47102**
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- Ding, Zhi Gang On the common fixed-point property for families of mappings. (Chinese. English summary) **86d:54067**
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- Goebel, Kazimierz (with Reich, Simeon) ★ Uniform convexity, hyperbolic geometry, and nonexpansive mappings. **86d:58012**
- Hadžić, Olga On common fixed points in metric and probabilistic metric spaces with convex structures. (Serbo-Croatian summary) **86e:54052**
- Horiuchi, Kazuo A theory of nondeterministic operators and its applications to system analysis. (Japanese. English summary) **86c:47084**
- Khan, Mohd. Saeed (with Swaleh, M.) Fixed point theorems for generalized contraction. **86a:54050**
- Lahiri, B. K. See Mukhopadhyay, S. K., **86m:54061**
- Landes, Thomas Permanence properties of normal structure. **86c:46014**
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- Remarks on fixed point theorems of Downing and Kirk for set-valued mappings in metric and Banach spaces. **86c:54045**
- Rassias, Themistocles M. Some theorems of fixed points in nonlinear analysis. **86j:54081**
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- Rus, Ioan A. Seminar on fixed point theory: fifteen years of activity. **86m:01047**
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- Trif, Damian Banach's fixed point theorem and simplicial methods for solving some $Lx = Nx$ equations. (See **86c:00013**)
- Vesentini, Edoardo Fixed points of holomorphic maps. **86c:32033**
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- Zagrodny, Dariusz Fixed point theorem for multifunctions. **86j:49037**
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- Guo, Da Jun Fixed points and eigenelements of a class of concave and convex operators. (Chinese) (Not in MR)
- Oshime, Yorimasa Nonlinear Perron-Frobenius problem for weakly contractive transformations. **86e:15028**
- 47H15 Equations involving nonlinear operators [See also 58E07 for abstract bifurcation theory.]
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- Balakrishna Reddy, K. Random step contractors and Matkowski's fixed point theorem. **86g:47078**
- Biroli, M. Correction to Theorem XIX of the paper: "On the bounded almost periodic solutions of evolution equations and inequalities" [Ann. Mat. Pura Appl. (4) 93 (1972), 1-79; MR 47# 9380]. (French) **86b:47104**
- Cañada, A. (with Martínez-Amores, P.) Solvability of some operator equations and periodic solutions of nonlinear functional-differential equations. **86d:47069**

- (with Ortega, Rafael) Existence theorems for equations in normed spaces and boundary value problems for nonlinear vector ordinary differential equations. **86c:47081**
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- Gęba, Kazimierz (with Granas, Andrzej; Kaczyński, Tomasz; Krawczyński, Wiesław) Homotopie et équations non linéaires dans les espaces de Banach. (English summary) [Homotopy and nonlinear equations in Banach spaces] **86h:47088**
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- Kato, Nobuyuki (with Kobayasi, Kasuo; Miyadera, Isao) On the asymptotic behavior of solutions of evolution equations associated with nonlinear Volterra equations. **86h:47089**
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- Marx, B. Lösungsverzweigung bei Hammersteinchen Operatorgleichungen mit vektorwertiger Parameterabhängigkeit. [Bifurcation of solutions in Hammerstein operator equations with vector-valued parameter dependence] **86j:47086**
- Milejević, P. S. Approximation-solvability of some noncoercive nonlinear equations and semilinear problems at resonance with applications. **86c:47066**
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- Antonevich, A. B. A class of functional equations in spaces of differentiable functions. (Russian. English summary) **86h:39019**
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- Brodovskii, V. G. On the solvability of a boundary value problem for functional-differential equations. (Russian. Kazakh summary) **86i:34085**
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- Hirano, Norimichi On the ergodicity of solutions of nonlinear evolution equations with periodic forcings. **86g:34090**
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- Shedde, G. R. Volterra integral equations in abstract cones and monotone iterative techniques. **86j:45008**
- Skaletskii, A. G. Uniformly continuous selections in Fréchet spaces. (Russian) **86k:46070**
- Sklyar, G. M. See Korobov, V. I., **86g:93052**
- Stachura, Adam (with Sękowski, Tadeusz) Projection and symmetry in the unit ball of Hilbert space with hyperbolic metric. (Russian summary) **86c:32032**
- Stochel, J. (with Szafranec, F. H.) Boundedness of linear and related nonlinear maps. II. **86j:47025**
- Szabó, Zoltán István Ein Erweiterungsversuch des divergenzpunktfreien Verfahrens der Berührungspareln zur Lösung nichtlinearer Gleichungen in normierten Vektorverbänden. (English summary) [An attempt at extending the method, without points of divergence, of tangent parabolas to the solution of nonlinear equations in normed vector lattices] **86b:65061**
- Szafranec, F. H. See Stochel, J., **86j:47025**
- Szufla, Stanislaw On the existence of L^p -solutions of Volterra integral equations in Banach spaces. **86e:45022**
See also Phucienik, Ryssard, **86e:45021**
- Szulkin, Andrzej On a class of variational inequalities involving gradient operators. **86g:49011**
- Théra, Michel See Penot, J.-P., **86e:49035**
- Thibault, L. Lipschitz continuity of V -subdifferentials of convex operators. **86k:90149**
See also Jouak, M., **86j:90115**
- Thompson, Anthony C. See Klein, Erwin, **86a:90012**
- Tomarelli, Franco See Baiocchi, Claudio et al., **86a:49008**
- Vescan, Robert T. Un problème variationnel implicite faible. (English summary) [A weak implicit variational problem] **86a:49016**
- Winternits, P. See Rand, D. W., **86i:58118**

49-XX CALCULUS OF VARIATIONS AND OPTIMAL CONTROL; OPTIMIZATION [See also 34H05, 65Kxx, 90Cxx, 93-XX.]

- Kornelchuk, N. P. Duality of extremal problems in function spaces and approximation of functions. (Russian) (Not in MR)
- Molnár, Sándor Some remarks on the construction of minimal-dimensional control and observation matrices. (Not in MR)

49-01 Elementary exposition; textbooks

- Abdullaev, N. D. (with Petrov, Yu. P.) ★ Теория и методы проектирования оптимальных регуляторов. (Russian) [Theory and methods of designing optimal regulators] **86k:49001**
- Alekseev, V. M. (with Galeev, È. M.; Tikhomirov, V. M.) ★ Сборник задач по оптимизации. (Russian) [A collection of problems in optimization] **86j:49001**
- Brechten-Mandárscheid, Ursula ★ Einführung in die Variationsrechnung. (German) [Introduction to the calculus of variations] **86d:49001**
- (Dombrovskii, M.) See Krasnov, M. L. et al., **86b:49002**
- Ekeland, Ivar (with Turnbull, Thomas) ★ Infinite-dimensional optimization and convexity. **86i:49001**
- Ewing, George M. ★ Calculus of variations with applications. **86j:49002**
- Galeev, È. M. See Alekseev, V. M. et al., **86j:49001**
- Guan, Zhao Zhi (with Han, Jing Qing; Qin, Hua Shu; Wang, Chao Zhu; Wang, Shi Lin) ★ Jizhi kongzhi yu jida zhi yuanli. (Chinese) [Extremal control and the maximal principle] **86b:49001**
- Han, Jing Qing See Guan, Zhao Zhi et al., **86b:49001**
- Kiselev, A. I. See Krasnov, M. L. et al., **86b:49002**
- Krasnov, M. L. (with Makarenko, G. I.; Kiselev, A. I.) ★ Cálculo variacional. (Portuguese) [Calculus of variations] **86b:49002**
- (Kufner, Alois) See Rektorys, Karel, **86h:49001**
- Makarenko, G. I. See Krasnov, M. L. et al., **86b:49002**
- Petrov, Yu. P. See Abdullaev, N. D., **86k:49001**
- Qin, Hua Shu See Guan, Zhao Zhi et al., **86b:49001**
- Rektorys, Karel ★ Variationsmethoden in Mathematik, Physik und Technik. (German) [Variational methods in mathematics, physics and technology] **86h:49001**
- (Silverman, Robert H.) See Smirnov, George M., **86h:49002**
- Smirnov, George M. ★ Oscillation theory of optimal processes. **86h:49002**
- Smith, Peter ★ Convexity methods in variational calculus. **86f:49001**
- Tadumadze, T. A. ★ Некоторые вопросы качественной теории оптимального управления. (Russian) [Some problems in the qualitative theory of optimal control] **86e:49001**
- Tikhomirov, V. M. See Alekseev, V. M. et al., **86j:49001**
- Turnbull, Thomas See Ekeland, Ivar, **86i:49001**
- Wang, Chao Zhu See Guan, Zhao Zhi et al., **86b:49001**
- Wang, Shi Lin See Guan, Zhao Zhi et al., **86b:49001**

secondary classifications (49-01)

- Klamkin, M. S. Mathematical modelling: a student optimal control problem and extensions. **86k:00020**
- Lyantse, V. È. (with Storozh, O. G.) ★ Методы теории неограниченных операторов. (Russian) [Methods of the theory of unbounded operators] **86k:47002**
- Storozh, O. G. See Lyantse, V. È., **86k:47002**
- Tunyanakii, N. T. ★ Седловые функции. (Russian) [Saddle functions] **86m:90178**

49-02 Advanced exposition (research surveys, monographs, etc.)

- Attouch, H. ★ Variational convergence for functions and operators. **86f:49002**
- (Boron, Leo F.) See Zeidler, Eberhard, **86f:49003**
- (Buslaeva, L. T.) See Some problems on the optimization of discontinuous functions, **86e:49004**
- Dubovitskii, V. A. ★ The Ulam problem of optimal motion of line segments. **86e:49002** (Ellis, John T.) See Dubovitskii, V. A., **86e:49002**
- Giaquinta, Mariano ★ Multiple integrals in the calculus of variations and nonlinear elliptic systems. **86b:49003**
- van Groesen, E. W. C. Aspects of the calculus of variations. (Dutch) (See **86m:49005**)
- Pironneau, O. ★ Optimal shape design for elliptic systems. **86e:49003**
- (Rol'shchikov, V. E.) See Some problems on the optimization of discontinuous functions, **86e:49004**
- Zeidler, Eberhard ★ Nonlinear functional analysis and its applications. III. **86f:49003**
- Some problems on the optimization of discontinuous functions ★ Некоторые вопросы оптимизации разрывных функций. (Russian) [Some problems on the optimization of discontinuous functions] **86e:49004**

secondary classifications (49-02)

- (Divakov, O. G.) See Applied program packages, **86e:93006**
- Ganě, V. A. (with Kuklev, E. A.; Stepanov, V. L.) ★ Системы управления при скачкообразных воздействиях. (Russian) [Control systems under jumplike actions] **86j:93001**
- Hildebrandt, Stefan Calculus of variations today, reflected in the Oberwolfach meetings. **86h:58029**
- Kuklev, E. A. See Ganě, V. A. et al., **86j:93001**
- (Matrosov, V. M.) See Applied program packages, **86e:93006**
- Stepanov, V. L. See Ganě, V. A. et al., **86j:93001**
- Zambrini, J.-C. Stochastic dynamics: a review of stochastic calculus of variations. **86h:81041**
- Applied program packages ★ Пакеты прикладных программ. (Russian) [Applied program packages] **86e:93006**

49-03 Historical (must also be assigned at least one classification number from Section 01)

secondary classifications (49-03)

- Fraser, Craig J. L. Lagrange's changing approach to the foundations of the calculus of variations. **86i:01023**
 Husserl, E. ★ Contributions à la théorie du calcul des variations. (French) [Contributions to the theory of the calculus of variations] **86d:01046**
 Knobloch, H.-W. (with Thoma, Manfred Hubert) Aspects of modern control theory. **86e:93004**
 (Lagrange, Joseph Louis) See Fraser, Craig, **86i:01023**
 Luchka, T. F. Justification of the Bubnov-Galerkin method for nonselfadjoint problems of mathematical physics. (Russian) **86g:01041**
 (Munack, A.) See Knobloch, H.-W., **86e:93004**
 Thoma, Manfred Hubert See Knobloch, H.-W., **86e:93004**
 (Vauthier, J.) See Husserl, E., **86d:01046**
 (Willemis, J. L.) See Knobloch, H.-W., **86e:93004**

49-06 Proceedings, conferences, etc.

- (Capuzzo Dolcetta, Italo) See Recent mathematical methods in dynamic programming, **86d:49002**
 (Degiovanni, Marco) See Nonlinear variational problems, **86e:49005**
 (Fleming, W. H.) See Recent mathematical methods in dynamic programming, **86d:49002**
 (Marino, Antonio) See Nonlinear variational problems, **86e:49005**
 (Modica, L.) See Nonlinear variational problems, **86e:49005**
 (Spagnolo, Sergio) See Nonlinear variational problems, **86e:49005**
 (Zolassi, T.) See Recent mathematical methods in dynamic programming, **86d:49002**
 Conference:
 Recent mathematical methods in dynamic programming ★ Recent mathematical methods in dynamic programming. **86d:49002**
 Isola d'Elba ★ Nonlinear variational problems. **86e:49005**
 Nonlinear variational problems ★ Nonlinear variational problems. **86e:49005**
 Recent mathematical methods in dynamic programming ★ Recent mathematical methods in dynamic programming. **86d:49002**
 Rome ★ Recent mathematical methods in dynamic programming. **86d:49002**
 Workshop:
 Nonlinear variational problems ★ Nonlinear variational problems. **86e:49005**

secondary classifications (49-06)

- (Babary, J.-P.) See Control of distributed parameter systems, **86g:93002**
 (Bombieri, Enrico) See Seminar on minimal submanifolds, **86d:53001**
 (Brenbica, C. A.) See Variational methods in engineering, **86j:65009**
 (Le Letty, Laurent) See Control of distributed parameter systems, **86g:93002**
 (Salinetti, G.) See Multifunctions and integrands, **86b:90004**
 Catania ★ Multifunctions and integrands. **86b:90004**
 Conference:
 Multifunctions and integrands ★ Multifunctions and integrands. **86b:90004**
 Variational methods in engineering ★ Variational methods in engineering. **86j:65009**
 Control of distributed parameter systems ★ Control of distributed parameter systems, 1982. **86g:93002**
 IFAC symposium:
 Control of distributed parameter systems ★ Control of distributed parameter systems, 1982. **86g:93002**
 Multifunctions and integrands ★ Multifunctions and integrands. **86b:90004**
 Seminar:
 Variational methods ★ Seminar of variational methods. (French) **86i:00009**
 Seminar on minimal submanifolds ★ Seminar on minimal submanifolds. **86d:53001**
 Southampton ★ Variational methods in engineering. **86j:65009**
 Toulouse ★ Control of distributed parameter systems, 1982. **86g:93002**
 Variational methods in engineering ★ Variational methods in engineering. **86j:65009**

49Axx Existence theory for optimal solutions

49A05 Free problems in one independent variable

- Ball, J. M. (with Mizel, Victor J.) Singular minimizers for regular one-dimensional problems in the calculus of variations. **86f:49004**
 (with Mizel, Victor J.) One-dimensional variational problems whose minimizers do not satisfy the Euler-Lagrange equation. **86k:49002**
 Koemel, Peter Bemerkungen zur Brachistochrone. (English summary) [Remarks on the brachistochrone] **86a:49001**
 Mizel, Victor J. See Ball, J. M., **86f:49004** and **86k:49002**
 Sadyrbasov, F. Zh. Extremals of variational problems in the case of slow growth of the integrand. (Russian) **86h:49003**

secondary classifications (49A05)

Yanamoto, Hiroshi On the elastic closed plane curves. **86h:53004**

49A10 Problems involving ordinary differential equations, optimal control

- Abdyrahmanov, O. (with Kryazhimskii, A. V.) On the question of the well-posedness of an optimal control problem. (Russian) **86e:49006**
 (with Kryazhimskii, A. V.) Regularization of an optimal control problem for a system with nonuniqueness. II. (Russian. English summary) **86j:49033**
 Allen, A. (with Langholz, G.) On the existence of time-optimal control of mechanical manipulators. **86e:49007**
 Amillo, José M. Control in minimum time of a second-order nonlinear system. (Spanish. English summary) (See **86h:00009a**)

- Arsenashvili, A. I. Synthesis of time-optimal control for a class of linear step-systems with delays. (Russian. English and Georgian summaries) **86d:49003**
 Avalishvili, N. M. An existence theorem for a class of optimal problems with switching and variable delays. (Russian. English and Georgian summaries) **86i:49002**
 Bagirova, N. Kh. Asymptotic behavior of the solution of a singularly perturbed classical problem of optimal control in the critical case. (Russian. English and Azerbaijani summaries) **86f:49005**
 Baharov, Boiko Z. See Baharova, Lina N., **86j:49003**
 Baharova, Lina N. (with Baharov, Boiko Z.) Time-optimal control for the third order systems with two controls. (Russian summary) **86j:49003**
 Banks, S. P. (with Yew, M. K.) On a class of suboptimal controls for infinite-dimensional bilinear systems. **86g:49001**
 Barabanov, A. T. A matrix problem of linear-quadratic optimization. (Russian) (Not in MR)
 Başar, Tamer See Geering, Hans P., **86f:49007**
 Bertrand, P. See Duc, G. et al., **(86i:93003)**
 Breakwell, J. V. (with Shinar, J.; Visser, H. G.) Uniformly valid feedback expansions for optimal control of singularly perturbed dynamic systems. **86j:49004**
 Buckingham, N. J. See Ryan, E. P., **86j:49008**
 Bulaeva, L. T. (with Korotaeva, L. N.; Rol'shchikov, V. E.) A nonlinear problem of vector optimization. (Russian) **86j:49005**
 Chang, Jung Yu See Wang, Mao Ling, **86d:49006**
 Chow, Joe H. See Kokotović, P. V., **(86f:93010)**
 Colonius, F. Optimality for evolution systems and delay systems with fixed final F-state. (See **86g:93002**)
 The high-frequency II-criterion for retarded systems. **86j:49006**
 Dal Maso, Gianni Limits of minimum problems for convex functionals with unilateral obstacles. (Italian. English summary) **86b:49004**
 Dmitriev, M. G. See Vasil'eva, A. B., **86k:49004**
 Dong, Jin Tian See Liu, De Xiang (Not in MR)
 Duc, G. (with Michalec, G.; Siret, J.-M.; Bertrand, P.) Reduced-order modelling by aggregation for control and suboptimality evaluation. (See **86i:93003**)
 Ershov, N. N. See Volkov, E. F. et al. (Not in MR)
 Faibovich, L. E. Existence and uniqueness of extremal solutions of the Riccati equation and symplectic geometry. (Russian) **86f:49006**
 Fliess, Michel La commande optimale en boucle fermée comme problème de Cauchy. (English summary) [Optimal feedback control as a Cauchy problem] **86i:49003**
 Galperin, Edm A. Une méthode générale pour la solution numérique des problèmes de la commande. [A general method for the numerical solution of control problems] **86b:49005**
 Gandelman, M. Kh. An algorithm for optimal control of a linear dynamic system. (Russian) **86e:49008**
 Geering, Hans P. (with Başar, Tamer) Existence of dominant solutions in linear output feedback. **86f:49007**
 Gusev, D. E. Turnpike theorem in the problem of continuous optimization with nonunique minimum of the quality functional. (Russian. English summary) **86b:49006**
 Haas, Violet B. Linear-quadratic optimal control revisited. **86b:49007**
 Habets, P. Singular perturbations in nonlinear systems and optimal control. **86h:49004**
 Huang, Ch'i (with Shih, Yen P'ing) Optimal control of delay systems via block pulse functions. **86d:49004**
 Ignatenko, V. N. (with Saenko, T. A.; Strakhova, N. V.) Predicted optimally fuel efficient control of second-order systems with delay. (Russian) **86e:49009**
 Ito, Kasufumi (with Tarn, T. J.) A linear quadratic optimal control for neutral systems. **86i:49004**
 Jazczuk, Marian A method of optimization of a class of tracking systems. (Polish. English and Russian summaries) **86h:49005**
 Kalaba, R. (with Spingarn, K.) Automatic solution of n th-order optimal control problems. **86i:49005**
 Katayama, Tohru See Takagi, Tomoaki (Not in MR)
 Kein, V. M. Accumulation of perturbations at a bounded rate. (Russian) **86k:49003**
 Khrabrov, V. N. See Volkov, E. F. et al. (Not in MR)
 Klumov, A. S. (with Merkulov, A. E.) Time-optimal control of an astatic second-order element with nonregular mixed constraints on the control. (Russian. English summary) **86f:49008**
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 Korotaeva, L. N. See Bulaeva, L. T. et al., **86j:49005**
 Krasnoproschina, A. A. (with Yarinich, S. V.) Optimal control of a mechanism moving along a trajectory. **86f:49009**
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 Kurina, G. A. Feedback control for linear systems that are not solved with respect to the derivative. **86a:49002**
 Kurshanskaya, N. A. Optimal control of a pencil of trajectories of a system with sub-definite parameters. (Russian) **86f:49010**
 Langholz, G. See Allen, A., **86e:49007**
 Lefura, V. N. See Men'ko, Ya. P., **(86f:34003)**
 Leisarovits, Arie Infinite horizon autonomous systems with unbounded cost. **86g:49002**
 Liu, De Xiang (with Dong, Jin Tian) On the optimal control of $z f'(z)/f(z)$ in some families of functions. (Not in MR)
 Łojasiewicz, Stanisław, Jr. (with Sussmann, H. J.) Some examples of reachable sets and optimal cost functions that fail to be subanalytic. **86j:49007**
 Lü, Hong Fan The fundamental properties of the change point and the change time for the time optimal control problem for two-dimensional nonlinear systems. (Chinese. English summary) (Not in MR)
 Men'ko, Ya. P. (with Lefura, V. N.) Asymptotic solution of the problem of optimal control of systems of linear differential equations with retarded argument. (Russian) (See **86f:34003**)
 Merkulov, A. E. See Klumov, A. S., **86f:49008**
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- Miško, Karel Optimal control of systems described by differential equations. (Czech. English and Russian summaries) (Not in MR)
- Mukherjee, R. N. See Prasad, Shiv, 86i:49006
- Muselli, Elena Delay control problems. (Italian. English summary) 86d:49005
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- O'Malley, R. E., Jr. On nonlinear optimal control problems. (See 86f:93010)
- Parlar, Mahmut A continuous-time linear tracking problem with an asymmetric quadratic objective functional containing a cost-free interval. 86f:49011
- Prasad, Shiv (with Mukherjee, R. N.) A barrier method for an optimal control problem. (Italian summary) 86i:49006
- Rao, S. Vittal Suboptimal control of large scale systems by chained aggregation. (See 86i:93003)
- Restorick, Stephen J. Multilayer decompositions for dynamic control problems. 86f:49012
- Rol'shchikov, V. E. See Buslaeva, L. T. et al., 86j:49005
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(with Buckingham, N. J.) Minimization of a quadratic cost functional for a class of single-input bilinear control systems. 86j:49008
- Saenko, T. A. See Ignatenko, V. N. et al., 86e:49009
- Shahin, M. M. On boundary value problem and variational problem in a class of discontinuous solutions. 86j:49009
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- Shevchenko, K. N. Time-optimal motion of a point acted upon by a system of central forces. 86g:49003
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- Silin, D. B. Riemann integrability of the optimal control in linear time-optimality problems. (Russian) 86e:49010
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- Spingarn, K. See Kalaba, R., 86i:49005
- Stern, Lynnell E. Criteria of optimality in the infinite-time optimal control problem. 86c:49002
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- Tadmor, Gilead Optimal controls and their discontinuities in quadratic problems of delay systems. 86f:49014
- Tadumadse, T. A. Existence of a solution in optimal problems described by nonlinear functional-differential equations. (Russian) 86i:49007
- Takagi, Tomoaki (with Katayama, Tohru) Singular optimal control problem for a single input and single output time-lag system with one control variable appearing linearly. (Japanese. English summary) (Not in MR)
- Taranova, L. N. Maximum deviation of a servomechanism on an interval. (Russian) 86h:49006
- Tarn, T. J. See Ito, Kasufumi, 86i:49004
- Varnavskii, V. G. Optimal programmed control of a linear system. (Russian) (See 86f:93006)
- Vasil'eva, A. B. (with Dmitriev, M. G.) Singular perturbations in a nonlinear optimal control problem. (Russian) 86k:49004
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- Wang, Mao Ling (with Chang, Jung Yu) Optimal control of lumped parameter systems via shifted Legendre polynomial approximation. 86d:49006
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- Yatsenko, V. A. Dynamically equivalent systems in the solution of certain optimal control problems. 86e:49011
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- Zhang, Zhong Xing The composite optimal control problem of a linear constant system. (Chinese. English summary) 86a:49004
- secondary classifications (49A10)
- Abdyrahmanov, O. (with Kryzhinskii, A. V.) Regularization of an optimal control problem for a system with nonuniqueness. (Russian) 86j:49031
- Allwright, J. C. A dominance concept for optimal control with partially unknown initial conditions. 86f:49030
- Bernal, Francisco Asymptotic rates of decay for some nonlinear ordinary differential equations and variational problems of arbitrary order. (French summary) 86h:34036
- Bobylov, N. A. Solvability of boundary value problems and tests for the minimum of integral functionals. (Russian) 86k:49017
- Carr, Jack (with Gurtin, Morton E.; Slemrod, M.) One-dimensional structured phase transformations under prescribed loads. 86h:73005
- Easén, M. Optimization and α -disfocality for ordinary differential equations. 86d:34056
- Evseenko, T. P. Approximate solution of an optimal control problem with minimal force. (Russian) 86e:49025
- Feiring, Bruce R. See Tomita, Ken, 86d:49051
- Furuta, K. See Kondo, R., 86f:93075
- Gurtin, Morton E. See Carr, Jack et al., 86h:73005
- Hartl, Richard (with Mehlmann, Alexander) Optimal seducing policies for dynamic continuous lovers under risk of being killed by a rival. 86i:90128
- Hasiewicz, Zygmunt (with Stankiewicz, Anna) Optimal reduction of linear systems for the least-squares control problem. 86m:93043
- Kiselev, Yu. N. Linear time-optimality problem and the unit sphere of initial values of a conjugate variable. (Russian) 86j:49040
- Kondo, R. (with Furuta, K.) Sampled-data optimal control of continuous systems for quadratic criterion function taking account of delayed control action. 86f:93075
- Kryzhinskii, A. V. See Abdyrahmanov, O., 86j:49031
- Leisarovits, Arie Convergence of viable solutions of differential inclusions with convex compact graphs. 86j:34013
- Mehlmann, Alexander See Hartl, Richard, 86i:90128
- Odarich, O. M. See Zadoroshnyi, V. F., (86f:34003)
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- Tomita, Ken (with Feiring, Bruce R.) Trajectory optimization for maneuvering satellites. 86d:49051
- Vasil'eva, L. G. The extrapolation method in problems of correction of controllable processes with a priori constraints on the control action. (Russian) 86k:49012
- Zadoroshnyi, V. F. (with Odarich, O. M.) Almost-periodic oscillations of measure-preserving optimal systems. (Russian) (See 86f:34003)
- 49A21 Free problems in two or more independent variables
- Congedo, Giuseppe Rotating drops in a vessel. Existence of local minima. (Italian) 86d:49008
secondary classifications (49A21)
- Hayasida, Kasuya (with Nagase, Haruo) On systems of variational inequalities with mixed boundary conditions. 86k:49008
- Nagase, Haruo See Hayasida, Kasuya, 86k:49008
- 49A22 Problems involving partial differential equations, optimal control
- Alifirov, V. V. (with Evseenko, T. P.; Kir'yan, S. V.; Shenfel'd, G. B.) Approximate solution of an optimal control problem with a functional characterizing the state of the process at discrete points. (Russian) 86d:49009
- Alt, Hans Wilhelm (with Caffarelli, L.; Friedman, Avner) A free boundary problem for quasilinear elliptic equations. 86c:49003
- Balas, M. J. Optimal quasistatic shape control for large aerospace antennae. 86j:49011
- Bonnans, J. F. Application of a new class of augmented Lagrangians to the control of distributed parameter systems. (See 86g:93002)
- Caffarelli, L. See Alt, Hans Wilhelm et al., 86c:49003
- Capusso Dolcetta, Italo Singular perturbation of an elliptic system and the optimal switching problem. (See 86e:49005)
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- See also Feistauer, Miloslav et al., **86f:35148**
- Mariale, M. J. See Reddy, B. D. et al., **86i:73023**
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- Meerov, M. V. (with Berachanik, Ya. M.) Some optimization problems reducible to variational inequalities and complementarity problems. (See **86g:93002**)
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- Gurtin, Morton E. On a theory of phase transitions with interfacial energy. **86a:49018**
- Ho, Yu Chi On the perturbation analysis of discrete-event dynamic systems. **86j:49024**
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- Kostin, V. I. Points of the extremum of a function. (Russian) **86j:49026**
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- Li, Guang Quan (with Wang, Shih Ho; Wu, C. S.) Optimal local output feedback control in discrete-time decentralized systems. (Chinese summary) **86j:49027**
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- Cherkaev, A. V. See Lur'e, K. A., **86j:73066**
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- Elden, Lars An algorithm for the regularization of ill-conditioned, banded least squares problems. **86b:65034**
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- Sebastian, H.-J. See Trippier, Gisela, **86c:90122**
- Sokolov, V. F. Adaptive suboptimal control of a linear system with bounded disturbance. **86m:93055**
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- White, Douglas John Vector maximisation and Lagrange multipliers. **86d:90150**
- Zheng, Ying Wen Quadratic performance indices of SISO linear control systems in the frequency domain. (Chinese. English summary) **86k:93054**

49A36 Optimal solutions belonging to restricted classes (bang-bang controls, etc.)

- Belghith, Safya (with Rosset, Marie-Minerve) Application des crochets de Lie à un problème de régulation thermique. (English summary) [The use of Lie brackets in a thermal regulator problem] **86a:49021**
- Evseenko, T. P. Approximate solution of an optimal control problem with minimal force. (Russian) **86c:49025**
- Fuller, A. T. Minimization of various performance indices for a system with bounded control. **86i:49015**
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- Kabitski, Jacek Optimal control with a bounded number of switchings. I. Formulation of main results. (Russian summary) **86g:49017a**
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- Constructive time-suboptimal control laws in nonstationary nonoscillatory systems. **86f:49037**
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- Telesnin, V. R. A problem of optimization of transients. (Russian) **86b:49016**
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- Klamka, J. Controllability and optimal control of 2-D linear systems. **86i:93013**
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49A40 Minimax problems

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- Chuyan, O. R. Optimal algorithms for search for the extremum of differentiable functions. (Russian) **86c:90070**
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- Passick, Lech Nonempty intersection and minimax theorems. (Russian summary) **86c:47078**
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49A45 Game theory; pursuit and evasion [See also 90Dxx.]

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- Zheng, Ying Ping See Luh, Peter B. et al. **86d:90176**
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- Bertsekas, D. (with Shrive, Steven E.) ★ Стохастическое оптимальное управление. (Russian) [Stochastic optimal control] **86m:93098**
- Boccardo, L. See Bensoussan, A. et al., **86k:49026**
- Castañón, David A. (with Levy, Bernard C.; Willacy, Alan S.) Algorithms for the incorporation of predictive information in surveillance theory. **86f:93118**
- Dashevskii, M. L. (with Siluyanova, I. D.) On calculation of the coefficients of equations of conditionally optimal filters. (Russian. English summary) **86f:93100**
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- Frehse, J. See Bensoussan, A., **86d:93100**
- Gilbert, Francis Problèmes de Neumann quasilineaires. [Quasilinear Neumann problems] **86j:35065**
- Gordienko, E. I. Random search in the problem of adaptive control of Markov processes with discrete time. **86j:93029**
- Adaptive strategies for certain classes of controllable Markov processes. (Russian) **86a:93138**
- Hahnwald-Busch, Andreas (with Maibaum, Gert; Müller, Hans-Otfried; Müller, P. Heinz; Neumann, Peter; Nollau, Volker) ★ Steuerung stochastischer Prozesse. (German) [Control of stochastic processes] **86j:93145**
- Helmes, K. Optimal discounted control for a continuous time inventory model. **86h:90031**
- Ishikawa, Masaaki See Sunahara, Yoshifumi et al., **(86g:93002)**
- Kaminskas, Vytautas (with Šidlauskas, Kęstutis) Control of extremal dynamic systems using optimal predictors. (Russian. Lithuanian summary) **86j:93038**
- Katz, Eliakim A rule for signing the effect of uncertainty in an optimization problem with two control variables. **86c:90019**

- Kasakov, I. E. Analytic synthesis of a quasioptimal additive control in a nonlinear stochastic system. (Russian. English summary) **86g:93078**
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Trulsson, Eva (with Ljung, L.) Adaptive control based on explicit criterion minimization. **86i:93042**
Verdú, Sergio (with Poor, H. Vincent) Minimax linear observers and regulators for stochastic systems with uncertain second-order statistics. **86e:93089**
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Zabczyk, J. Stopping games and Dirichlet spaces. (See **86g:93002**)

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- Aliiev, F. A. See Maksudov, F. G., **86e:49043**
Maksudov, F. G. (with Aliiev, F. A.) Optimization of impulse systems with nonseparated boundary conditions. (Russian) **86e:49043**

secondary classifications (49A99)

- Brulois, F. See Ross, John, **86f:76062**
Karwowski, Waldemar Z. Degenerate two-point boundary value problem for functional-differential equation. **86g:34094**
Llorens Fuster, Enrique Discrete dynamic semisystems over topological spaces. (Spanish) (See **86g:00012c**)
Ross, John (with Brulois, F.) The stability of axisymmetric rotating drops. **86f:76062**

49Bxx Necessary conditions and sufficient conditions for optimality

49B05 Free problems in one independent variable

- Cesar, Mauro de Oliveira Necessary conditions and sufficient conditions of weak minimum for solutions with corner points. **86g:49025**
Pucci, Patricia A remark on the classical DuBois-Reymond necessary condition for weak local extrema. **86f:49059**

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- Lando, Yu. K. ★Элементы математической теории управления движением. (Russian) [Elements of the mathematical theory of the control of motion] **86b:93006**

49B10 Problems involving ordinary differential equations, optimal control

- Abramenko, S. N. (with Seisov, Yu. B.; Polatov, M. B.) Conditions for optimality in optimization problems with an integral performance index. (Russian. English summary) **86g:49026**
Akhmadaliev, A. Some applications of the method of increments. (Russian) (See **86f:93006**)
Amin, M. H. Further comments on: "A necessary condition for optimization in the frequency domain" [Internat. J. Control **36** (1982), no. 2, 213-215; MR **84a:49025**] by T. G. Koussioris; and on "Optimization and pole placement for a single input controllable system" [ibid. **33** (1981), no. 2, 355-362; MR **82b:49026**] by Koussioris and A. G. Bakirtzis. **86e:49044**
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Bernstein, Dennis S. Control constraints, abnormality, and improved performance by periodic control. **86h:49026**
Bolyshv, N. A. Solvability of boundary value problems and tests for the minimum of integral functionals. (Russian) **86k:49017**
Bollen, J. A. M. Synchronization theory for forced oscillations in second-order systems. **86j:49048**
Brassan, Alberto A high order test for optimality of bang-bang controls. **86a:49038**
Bud'ko, O. N. A sufficient condition for strong positivity of the second variation for a continuous system with lag in the control. (Russian) **86i:49024**
D'Amico, Giovanni Orbit rendezvous in minimal time of two objects moving along a preestablished straight path. (Italian) **86a:49039a**
Application of the Pontryagin principle to an orbit rendezvous on a circular path in minimal time. (Italian. English summary) **86a:49039b**
Dubovitskii, V. A. Necessary and sufficient conditions of minimum in optimal control problems with sliding modes and generalized controls. **86b:49026**
Fliess, Michel An algebraic approach to functional expansions, application to a singular optimal control problem. **86c:49023**
Goebel, M. (with Begashaw, Negash) Coefficient control in a linear second order ordinary differential equation. (German and Russian summaries) **86i:49025**
Grabski, Zbigniew Investigation of constraint activity in optimization problems. (Polish summary) **86k:49018**
Gyurkovics, E. Hölder condition for the minimum time function of linear systems. **86b:49027**
Hartl, Richard (with Sethi, Suresh P.) Optimal control problems with differential inclusions: sufficiency conditions and an application to a production-inventory model. **86b:49028**
Hejmo, Władysław (with Kłoch, Jęcenty) Synthesis of a time-optimal control system for an object described by second order differential inclusion. (Russian and Polish summaries) **86j:49049**
Hoàng Xuân Phú Lineare Steuerungsprobleme mit engen Zustandsbereichen. (English summary) [Linear control problems with narrow state domains] **86f:49060**
Lösung einer eindimensionalen regulären Aufgabe der optimalen Steuerung mit engen Zustandsbereichen anhand der Methode der Bereichsanalyse. (English summary) [Solution of a one-dimensional regular problem of optimal control with narrow state domains using the method of domain analysis] **86j:49050**
Ignatenko, V. N. (with Arakelyan, S. A.) Uniqueness of optimally fuel-efficient controls in linear time-dependent systems. (Russian) **86d:49026**
Kalinin, A. I. On the problem of singular optimal controls. (Russian) **86f:49061**
Kaskosz, B. (with Łojasiewicz, Stanisław, Jr.) A maximum principle for generalized control systems. **86f:49062**
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Lamnabhi-Lagarrigue, F. A Volterra series interpretation of some higher order conditions in optimal control. **86j:49051**
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- Nowakowski, Andrzej Sufficient conditions for a minimum in a classical optimal control problem. (Russian and Polish summaries) **86g:49029**
- Orlov, Yu. V. Necessary optimality of generalized controls. I. **86a:49040a**
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- Pappas, G. S. Optimal solutions to differential inclusions in presence of state constraints. **86d:49029**
- Peraire, Yves Une démonstration brève d'un principe du maximum d'ordre supérieur. (English summary) [A short proof of a higher maximal principle] **86g:49030**
- Pesheva, Yu. Kh. A problem of time optimality in systems of differential equations with retarded argument. (Russian) **86f:49065**
- Plotnikov, V. I. (with Sumin, M. I.) Conditions for elements of minimizing sequences of optimal control problems. (Russian) **86a:49041**
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- Pupkova, S. K. Optimal control of a multifrequency system in a standard form. (Russian) **86f:49066**
- Radievskii, A. E. Specification of the optimality principle in the problem of multicriteria synthesis of dynamic control systems. (Russian) **86d:49030**
- Rubchinskii, A. A. See Vinogradskaya, T. M. et al., **86b:49030**
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- Sztajale, Jerzy Transversality conditions for controls with bounded variation. (Polish summary) **86k:49020**
- Vasil'ev, V. I. (with Kazachkov, I. V.) Application of the principle of the maximum in problems of simulation control. (Russian) **86b:49042**
- Velo'ov, V. M. On the local properties of Bellman's function for nonlinear time-optimal control problems. **86c:49025**
- Vinogradskaya, T. M. (with Makarov, I. M.; Rubchinskii, A. A.; Sokolov, V. B.; Shcherbakov, A. V.) Multicriterion optimal control. **86b:49030**
- Vyazgin, V. A. Extension of sufficient optimality conditions in the methods of Weierstrass and of Hamilton-Jacobi-Bellman. **86b:49031**
- Walczak, Stanisław On some control problem. (Polish summary) **86k:49021**
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- Warnecke, G. On singular and bang-bang processes in optimal control. **86c:49028**
- secondary classifications (49B10)
- Akhlev, S. S. A scheme for construction of fundamental solutions of local and nonlocal boundary value problems and its applications to optimization problems. (Russian) **86c:55074**
- Gaishun, P. V. (with Mordukhovich, B. Sh.) Necessary conditions for an extremum in a minimax problem of optimal control of nonsmooth systems with constraints. (Russian. English summary) **86f:49078**
- Guan, Zhao Zhi (with Han, Jing Qing; Qin, Hua Shu; Wang, Chao Zhu; Wang, Shi Lin) ★ Jishi kongzhi yu jida zhi yuanli. (Chinese) [Extremal control and the maximal principle] **86b:49001**
- Han, Jing Qing See Guan, Zhao Zhi et al., **86b:49001**
- Haurie, Alain (with Sethi, Suresh P.) Decision and forecast horizons, agreeable plans, and the maximum principle for infinite horizon control problems. **86b:90056**
- Kita, Yoshiyuki See Shima, Masasuke, **86c:93014**
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- Komarov, V. A. Estimates of sets of attainability for linear systems. (Russian) **86b:49056**
- Krishchenko, A. P. Controllability and the attainability sets of nonlinear stationary systems. (Russian) **86a:49073**
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- Qin, Hua Shu See Guan, Zhao Zhi et al., **86b:49001**
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- Wang, Shi Lin See Guan, Zhao Zhi et al., **86b:49001**
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- Yakubovich, V. A. A singular problem of optimal control of a linear steady state system with a quadratic functional. (Russian) **86d:49007**
- ★ Optimal control of variational inequalities. **86a:49043**
- Baumelster, J. (with Jung, W.; Scondo, W.) Über Rand-Kontrollprobleme aus der Wärmeleitung für Materialien mit Gedächtnis. [On boundary control problems of heat conductivity for materials with memory] **86a:49044**
- Bonnans, J. F. Analysis and control of a nonlinear parabolic unstable system. **86c:49045**
- Bratus', A. S. Sufficient conditions for an extremum in problems of the control of coefficients of elliptic operators. (Russian) **86c:49046**
- Busurnyuk, S. N. The maximum principle for a process described by a system of equations of parabolic type with nonclassical boundary conditions. (Russian) **86c:49047**
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- Klink, H.-K. Über komplexe Methoden in der Kontrolltheorie: Randgesteuerte Probleme. [On complex methods in control theory: boundary-controlled problems] **86c:49033**
- Komornik, Vilmos (with Tiba, Dan) Contrôles de systèmes fortement non linéaires. (English summary) [Control of strongly nonlinear systems] **86b:49029**
- Kuliev, G. F. The problem of optimal control of coefficients for equations of hyperbolic type. (Russian) **86j:49054**
- Lasiecka, I. (with Triggiani, R.) The quadratic cost problem for $L_2[0, T; L_2(\Gamma)]$ boundary input hyperbolic equations. **86b:49032**
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- Lions, Jacques-Louis On optimal control of unstable distributed systems. (See **86g:93002**)
- Lyashko, S. I. (with Man'kovskii, A. A.) Simultaneous optimization of impulse moments and intensities in control problems for parabolic equations. **86b:49033**
- Man'kovskii, A. A. See Lyashko, S. I., **86b:49033**
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- Mel'nik, V. S. See Vosnyuk, L. L., **86f:49070**
- Orlov, Yu. V. Optimization of distributed systems with generalized control. **86b:49030**
- Pritchard, A. J. Nonlinear infinite-dimensional systems theory. (See **86g:93002**)
- Raitums, U. Necessary optimality conditions for systems described by nonlinear elliptic equations. I. (Russian. English and German summaries) **86c:49034a**
Necessary optimality conditions for systems described by nonlinear elliptic equations. II. (Russian. English and German summaries) **86g:49034b**
- Scondo, W. See Baumelster, J. et al., **86a:49044**
- Srochko, V. A. Necessary conditions for optimality for hyperbolic systems with distributed parameters under constraints on the state. (Russian) **86j:49055**
- Sumin, M. I. Sufficient conditions for elements of minimizing sequences in optimal control problems. (Russian) **86a:49041**
- Suslov, G. V. A problem of optimal control by means of a radiation coefficient. (Russian) **86a:49046**
- Tiba, Dan Quelques remarques sur le contrôle de la corde vibrante avec obstacle. (English summary) [Some remarks on the control of the vibrating string with obstacle] **86a:49047**
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- Triggiani, R. See Lasiecka, I., **86b:49032**
- Tröltzsch, Fredi ★ Optimality conditions for parabolic control problems and applications. **86i:49026**
- Trutsunava, M. T. An optimal problem for quasilinear hyperbolic systems with boundary conditions of Goursat type. (Russian. English and Georgian summaries) **86d:49032**
- Vosnyuk, L. L. (with Mel'nik, V. S.) Optimal control of dynamical systems with constraints on the controls and the phase variables. **86f:49070**
- Yagubov, M. A. Conditions for second-order optimality for a process described by the Mangerson equation. (Russian) **86a:49048**
- Yao, Yun Long Maximum principle of semilinear distributed systems. (See **86g:93002**)
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- Yu, Wen Huan On necessary conditions for the existence of an optimal control for a class of elliptic systems. (Chinese. English summary) **86f:49071**
- Zolésio, J.-P. Numerical algorithms and existence result for a Bernoulli-like steady free boundary problem. **86c:49049**
- secondary classifications (49B22)
- Bonnans, J. F. (with Casas, E.) On the choice of the function spaces for some state-constrained control problems. **86b:49034**
- Caginalp, Gunduz A free boundary problem with moving source. **86a:35147**
- Casas, E. See Bonnans, J. F., **86b:49034**
- Chrysosverghis, I. Numerical approximation of nonconvex optimal control problems defined by parabolic equations. **86c:49067**
- Conrad, Francis The local behaviour of turning points in nonlinear eigenvalue problems. Application to parameter identification. **86b:35010**
- El-Saify, H. A. See Gall, I. M. et al., (**86f:90017**) and (Not in MR)
- El-Zahaby, S. A. See Gall, I. M. et al., (**86f:90017**)
- Feng, De Xing (with Zhu, Guang Tian) A control problem for reactor theory. **86m:82061**
- Gall, I. M. (with El-Saify, H. A.; El-Zahaby, S. A.) Distributed control of a system governed by Dirichlet and Neumann problems for elliptic equations of infinite order. (See **86f:90017**)
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- Giaquinta, Mariano (with Giusti, Enrico) Quasiminima. **86m:35054**
- Giusti, Enrico See Giaquinta, Mariano, **86m:35054**

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- Modugno, Marco See Mangiarotti, L., **86b:58026**

49B22 Problems involving partial differential equations, optimal control

- Ahmed, N. U. On the maximum principle for time-optimal controls for a class of distributed-boundary control problems. **86d:49031**
- Barbu, Viorel Boundary control of some free boundary problems. **86g:49031**

- Liu, Chang Mao On the forms of the Euler-Lagrange equations. (Chinese. English summary) **86c:58023**
- Luk'yanov, A. T. (with Serovskii, S. Ya.) The method of successive approximations in the problem of optimal control of a nonlinear parabolic system. (Russian) **86j:49015**
- Povoa, M. Boundary control of a symmetric hyperbolic system with nonlinear boundary conditions. **86i:49008**
- Serovskii, S. Ya. See Luk'yanov, A. T., **86j:49015**
- Tiba, Dan Boundary control for a Stefan problem. **86j:49017**
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- Turner, R. E. L. A variational approach to surface solitary waves. **86a:76012**
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- Kasimirov, V. I. (with Plotnikov, V. I.; Starobinets, I. M.) An abstract scheme of the method of variations and necessary condition for an extremum. (Russian) **86e:49050**
- Li, Xun Jing Vector-valued measure and the necessary conditions for the optimal control problems of linear systems. (See **86g:93002**)
- Lorentz, Rainer Necessary conditions for local extremality in optimal problems at a limit point regarding the state equation. (See **86f:90017**)
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- Starobinets, I. M. See Kasimirov, V. I. et al., **86e:49050**

secondary classifications (49B27)

- Ahmed, N. U. On the maximum principle for time-optimal controls for a class of distributed-boundary control problems. **86d:49031**
- Craven, B. D. (with Glover, Bevil M.) Inex functions and duality. **86m:90131**
- Fam Khyu Shak Duality in convex multivalued discrete systems. (Russian) **86d:90161**
- Glover, Bevil M. See Craven, B. D., **86m:90131**
- Goldstein, J. A. (with Levy, Mel) Hilbert-Schmidt approximation problems arising in quantum chemistry. **86b:81127**
- Levy, Mel See Goldstein, J. A., **86b:81127**
- Maruyama, Yukihiro See Tanaka, Kensuke, **86c:90130**
- Precupanu, Teodor Global sufficient optimality conditions for a family of nonconvex optimization problems. **86k:90148**
- Closedness conditions for the optimality of a family of nonconvex optimization problems. (French and German summaries) **86f:90162**
- Sukhinin, M. F. On a theorem of differentiability of the solution of an ordinary differential equation with respect to the initial condition. (Russian) **86b:34079**
- Tanaka, Kensuke (with Maruyama, Yukihiro) The multiobjective optimization problem of set function. **86c:90130**
- Thibault, L. Lipschitz continuity of V -subdifferentials of convex operators. **86k:90149**
- Zelikin, M. I. Minimization of integrals of differential forms. (Russian) **86c:58036**

49B34 Problems involving functional relations other than differential equations

- Akhmadaliev, A. An optimal control problem with fixed time of control switching. (Russian) (Not in MR)
- Arutyunov, A. V. On necessary conditions for optimality in a problem with phase constraints. (Russian) **86f:49073**
- Avakov, E. R. Conditions for an extremum for smooth problems with constraints of equality type. (Russian) **86j:49056**
- Bailey, Pat (with Smith, Peter) Applications of convex analysis and comparison functionals of extremum principles. **86e:49051**
- Balder, E. J. Existence results without convexity conditions for general problems of optimal control with singular components. **86e:49052**
- Ben-Tal, Aharon (with Zowe, J.) Second order optimality conditions for the L_1 -minimization problem. **86f:49074**
- Bien, Zeungnam See Kwon, Bong-Hwan et al., **86e:49053**
- Emre, Errol A new approach to identification of linear systems and the optimal solution of a class of synthesis problems. **86g:49036**
- Frankowska, Halina Necessary conditions for the Bolza problem. **86f:49075**
- Gorokhovik, S. Ya. Necessary conditions for optimality of singular controls in discrete systems with terminal constraints. (Russian. English summary) **86j:49057**
- Khotsev, A. L. Multipoint necessary conditions for optimality of singular controls for integro-differential equations of Barbashin type. (Russian. English summary) **86b:49035**
- Kwon, Bong-Hwan (with Youn, Myung-Joong; Bien, Zeungnam) Optimal constant feedback with time-multiplied performance index for discrete-time linear systems. **86e:49053**
- Mironov, P. G. A criterion for optimality for systems described by two-dimensional integral equations of Volterra type. (Russian) **86f:49076**

- Munakata, Tetsuhiro An optimal quantized solution to the Halkin-type discrete control problem with two performance functions. (Japanese. English summary) **86d:49033**
- Nahorski, Zbigniew (with Ravn, Hans F.; Vidal, René Victor Valqui) The discrete-time maximum principle: a survey and some new results. **86c:49028**
- Nasimov, A. B. A three-phase lexicographic problem and its regularization. (Russian. Tajiki summary) **86f:49077**
- Pantelev, A. V. (with Semenov, V. V.) Sufficient conditions for optimality of the control of deterministic systems with a restricted set of precise measurements. **86b:49036**
- Popeacu, Nicolae N. Linear-quadratic optimal problem for discrete systems in Hilbert spaces. **86d:49034**
- Ravn, Hans F. See Nahorski, Zbigniew et al., **86c:49028**
- Rolewicz, Stefan Sufficient conditions for optimality. (Russian) (See **86f:34003**)
- Semenov, V. V. See Pantelev, A. V., **86b:49036**
- Senyavin, M. M. (with Ulanov, G. M.) Solution of the problem of accumulation of deviations with terminal phase constraints. (Russian. English summary) **86b:49033**
- Smith, Peter See Bailey, Pat, **86e:49051**
- Ulanov, G. M. See Senyavin, M. M., **86b:49033**
- Vidal, René Victor Valqui See Nahorski, Zbigniew et al., **86c:49028**
- Warga, J. Second order controllability and optimization with ordinary controls. **86c:49029**
- Youn, Myung-Joong See Kwon, Bong-Hwan et al., **86e:49053**
- Zowe, J. See Ben-Tal, Aharon, **86f:49074**

secondary classifications (49B34)

- Bărsan, M. See Vladalav, T., **86j:65015**
- Chandra, Suresh (with Craven, B. D.; Husain, I.) A class of nondifferentiable continuous programming problems. **86f:90158**
- Craven, B. D. See Chandra, Suresh et al., **86f:90158**
- Feichtinger, G. An optimal control model for the dynamics of the firm. **86g:90030**
- Heape, Terry The forestry maximum principle. **86d:90030**
- Husain, I. See Chandra, Suresh et al., **86f:90158**
- Melnik, I. M. (with Oksimets, V. I.) Pareto optimality conditions for a class of multicriteria optimization problems. **86d:90144**
- Oksimets, V. I. See Melnik, I. M., **86d:90144**
- Sethi, Suresh P. See Thompson, G. L. et al., **86e:90056**
- Teng, Jinn Tsair See Thompson, G. L. et al., **86e:90056**
- Thompson, G. L. (with Sethi, Suresh P.; Teng, Jinn Tsair) Strong planning and forecast horizons for a model with simultaneous price and production decisions. **86e:90056**
- Tröltzsch, Fredi On Lagrange multiplier rules and their application to nonlinear control problems in function spaces. (See **86g:90058**)
- Vladalav, T. (with Bărsan, M.) A generalized spline interpolation problem. (Romanian. English summary) **86j:65015**

49B36 Optimal solutions belonging to restricted classes

- Agrachev, A. A. (with Vakhrameev, S. A.) Nonlinear control systems of constant rank and bang-bang conditions for extremal controls. (Russian) **86d:49035**
- Berdyshev, Yu. I. (with Chentsov, A. G.) Optimization of a functional on the class of polygons. (Russian) **86j:49058**
- Bonnans, J. F. (with Casas, E.) On the choice of the function spaces for some state-constrained control problems. **86b:49034**
- Bonnard, B. Remarques sur les extrémals singulières en contrôle en temps minimal. (English summary) [Remarks on singular extremals for minimum-time control] (See **86b:93046**)
- Casas, E. See Bonnans, J. F., **86b:49034**
- Chentsov, A. G. See Berdyshev, Yu. I., **86j:49058**
- Kalaba, R. (with Tishler, A.) On the use of higher order derivatives in optimization using Lagrange's expansion. **86b:49037**
- Nikulina, V. N. Optimization of the guaranteed result in a parametric synthesis problem for systems with a variable structure. **86k:49023**
- Tishler, A. See Kalaba, R., **86b:49037**
- Vakhrameev, S. A. See Agrachev, A. A., **86d:49035**

secondary classifications (49B36)

- Campos, L. T. (with Oden, J. T.) On the principle of stationary complementary energy in finite elastostatics. **86g:73028**
- Cesar, Mauro de Oliveira Necessary conditions and sufficient conditions of weak minimum for solutions with corner points. **86g:49025**
- Jongen, H. Th. (with Tammer, K.; Wolf, S.) The behaviour of the objective function on the Kuhn-Tucker set. **86g:90098**
- Kabsiński, Jacek Optimal control with a bounded number of switchings. I. Formulation of main results. (Russian summary) **86g:49017a**
- Optimal control with a bounded number of switchings. II. Derivation of necessary conditions. (Russian summary) **86g:49017b**
- Kibaczynski, K. (with Walczak, S.) Necessary optimality conditions for a problem with costs of rapid variation of control. **86b:49029**
- Knott, M. (with Smith, C. S.) On the optimal mapping of distributions. **86a:60026**
- Murray, J. M. Simple nonlinear dual control problems. **86m:93048**
- Oden, J. T. See Campos, L. T., **86g:73028**
- Smith, C. S. See Knott, M., **86a:60026**
- Tammer, K. See Jongen, H. Th. et al., **86g:90098**
- Walczak, S. See Kibaczynski, K., **86b:49029**
- Wolf, S. See Jongen, H. Th. et al., **86g:90098**

49B40 Minimax problems

- Angriani, Massimo On a discrete minimax problem. (Italian. English summary) **86a:49050**
- Galsbun, P. V. (with Mordukhovich, B. Sh.) Necessary conditions for an extremum in a minimax problem of optimal control of nonsmooth systems with constraints. (Russian. English summary) **86f:49078**
- Granas, Andrej (with Liu, Feng Ché) Quelques théorèmes de minimax sans convexité. (English summary) [Some minimax theorems without convexity] **86i:49027**
- Hollatz, H. (with Shmurév, V. I.) Notwendige Bedingungen und Minimaxaufgaben. [Necessary conditions and minimax problems] **86g:49037**
- Liu, Feng Ché See Granas, Andrej, **86i:49027**
- Mordukhovich, B. Sh. See Galsbun, P. V., **86f:49078**
- Shmurév, V. I. See Hollatz, H., **86g:49037**
- Sivtsova, V. K. The sufficiency of the integral principle of a minimax in optimal control problems. **86h:49035**
- Sufficiency of conditions for optimality in nonsmooth problems of control theory. (Russian. English summary) **86k:49024**
- Stefănescu, Alexandru Corneliu A general min-max theorem. **86j:49059**
- Vyagin, V. A. On necessary and sufficient conditions for a maximin in control problems. (Russian) **86f:49079**

secondary classifications (49B40)

- Bector, C. R. (with Bhatia, B. L.) Sufficient optimality conditions and duality for a minimax problem. **86k:90116**
- Bhatia, B. L. See Bector, C. R., **86k:90116**

49B50 Sensitivity of optimal solutions in the presence of perturbations

- Abraham, J. See Bule, R. N., **86g:49038**
- Bule, R. N. (with Abraham, J.) Post-optimality sensitivity analysis in abstract spaces with applications to continuous-time programming problems. **86g:49038**
- Buttazzo, Giuseppe (with Dal Maso, Gianni) Singular perturbation problems in the calculus of variations. **86j:49060**
- Dal Maso, Gianni See Buttazzo, Giuseppe, **86j:49060**
- Gallagor, V. G. Application of the averaging method for constructing suboptimal solutions of singularly perturbed problems of optimal control. (Russian. English summary) **86k:49025**
- Guseinov, T. G. Some peculiarities of the asymptotic behavior of the solution of the problem of optimal control for a system of integro-differential equations with singular perturbation. (Russian. English and Azerbaijani summaries) **86g:49039**
- Kokotović, P. V. Perturbations singulières en contrôle optimal. (English summary) [Singular perturbations in optimal control] (See **86b:93046**)
- Malanowski, K. Differential stability of solutions to convex, control constrained optimal control problems. **86c:49030**
- Pedemonte, Orietta On perturbations of quadratic functionals with constraints. (Russian and Polish summaries) **86d:49036**

secondary classifications (49B50)

- Correa, Rafael (with Seeger, Alberto) Directional derivatives in minimax problems. **86g:58012**
- Dmitriev, M. G. See Vasil'eva, A. B., **86k:49004**
- Fujiwara, Ohtsugu On the differentiability of optimal values for bounded nonlinear programs with equality constraints. **86e:90109**
- Malanowski, K. On differentiability with respect to parameter of solutions to convex optimal control problems subject to state space constraints. **86a:49007**
- Seeger, Alberto See Correa, Rafael, **86g:58012**
- Vasil'eva, A. B. (with Dmitriev, M. G.) Singular perturbations in a nonlinear optimal control problem. (Russian) **86k:49004**

49B60 Optimal stochastic control [See also 93Exx.]

- Aliev, F. A. Periodic optimization of stochastic systems with discrete time for the singular case. (Russian. English and Azerbaijani summaries) **86b:49038**
- Barabanov, A. E. (with Granichin, O. N.) Optimal controller for a linear plant with bounded noise. **86a:49051**
- Becher, Hannes See Greckach, W., **86d:49038**
- Cheok, K. C. (with Loh, N. K.; Zohdy, M. A.) Discrete-time optimal feedback controllers with time-multiplied performance indexes. **86c:49054**
- Dokuchaev, N. G. (with Yakubovich, V. A.) Optimal program control of a stochastic system in the case of constraints on the state for every moment of time. (Russian. English summary) **86f:49080**
- Frank, Jürgen Necessary conditions on optimal Markov controls for stochastic processes. **86d:49037**
- Gasanenko, V. A. (with Odynskaya, T. M.) Three criteria for optimality of systems with a random parameter. (Russian) **86g:49040**
- Gorn, Gianluca Optimality principle and synthesis for a stochastic control problem in Hilbert spaces. **86c:49031**
- Granichin, O. N. See Barabanov, A. E., **86a:49051**
- Greckach, W. (with Becher, Hannes) Anwendung der Dualitätstheorie in der stochastischen Steuerungstheorie. [Application of duality theory in stochastic control theory] **86d:49038**
- Haas, Violet B. Minimal-order Wiener filter for a system with exact measurements. **86f:49081**
- Hausmann, U. G. Extremals in stochastic control theory. **86b:49039**
- Karlov, V. I. See Zverev, A. I. et al., **86c:49056**
- Krasil'shchikov, M. N. See Zverev, A. I. et al., **86c:49056**
- Loh, N. K. See Cheok, K. C. et al., **86c:49054**
- Nikolaev, V. I. (with Ordin, V. V.; Petukhov, O. A.) A Markov algorithm for distributing a data base on a magnetic disk with movable heads. **86a:49052**

- Odynskaya, T. M. See Gasanenko, V. A., **86g:49040**
- Ordin, V. V. See Nikolaev, V. I. et al., **86a:49052**
- Perthame, B. Continuous and impulsive control of diffusion processes in R^N . **86c:49032**
- Petukhov, O. A. See Nikolaev, V. I. et al., **86a:49052**
- Riehel, Raymond Warren Unnormalized conditional probabilities and optimality for partially observed controlled jump Markov processes. **86g:49041**
- Rong, Situ Nonconvex stochastic optimal control and maximum principle. (See **86g:93002**)
- Shalkhet, L. E. A necessary condition for optimality of control for stochastic differential equations of hyperbolic type. (Russian) **86g:49042**
- Tevzadze, R. N. A necessary condition for optimality of stochastic control systems. (Russian. English and Georgian summaries) **86c:49055**
- Vorchik, B. G. Uniqueness of maximum-likelihood estimates of parameters of stochastic systems (the problem of local extrema). **86i:49028**
- Yakubovich, V. A. See Dokuchaev, N. G., **86f:49080**
- Zohdy, M. A. See Cheok, K. C. et al., **86c:49054**
- Zverev, A. I. (with Karlov, V. I.; Krasil'shchikov, M. N.) Determination of an optimal of measurements using the maximum principle. **86c:49056**

secondary classifications (49B60)

- Bensoussan, A. Optimal control of partially observed diffusions. **86h:93071**
- Bertsekas, D. (with Shrive, Steven E.) ★ Стохастическое оптимальное управление. (Russian) [Stochastic optimal control] **86m:93098**
- Havranec, T. Existence for the dynamic programming equation of control diffusion processes in Hilbert space. **86j:49063**
- (Khavanskoy, V. A.) See Bertsekas, D., **86m:93098**
- Li, Ch'un Man See Li, Hyōng Won, **86d:93124**
- Li, Hyōng Won (with Li, Ch'un Man) Optimal filtering theory with external environment control. I. (Korean. English summary) **86d:93124**
- (Lutkov, V. I.) See Bertsekas, D., **86m:93098**
- Shrive, Steven E. See Bertsekas, D., **86m:93098**
- (Yushkevich, A. A.) See Bertsekas, D., **86m:93098**

49B99 None of the above, but in this section

- Osmolovskii, V. G. An incompressibility condition for a certain class of integral functionals. II. (Russian) **86d:49039**
- Rossi, A. M. (with Sambucetti, P.) On the regularity of the solution of a variational problem. (Italian. English summary) **86c:49033**
- Sambucetti, P. See Rossi, A. M., **86c:49033**
- Zeidan, Vera First and second order sufficient conditions for optimal control and the calculus of variations. **86c:49034**

secondary classifications (49B99)

- Glaquinta, Mariano (with Souček, Jiří) Caccioppoli's inequality and Legendre-Hadamard condition. **86j:35059**
- Gray, John W. Intrinsic linear programming. **86h:90057**
- Souček, Jiří See Glaquinta, Mariano, **86j:35059**

49Cxx Carathéodory, Hamilton-Jacobi theories, including dynamic programming [See also 90C39.]

49C05 Free problems and problems involving ordinary differential equations

- Andrejewa, J. A. (with Klötzler, R.) Zur analytischen Lösung geometrischer Optimierungsaufgaben mittels Dualität bei Steuerungsproblemen. I. (English and Russian summaries) [On the analytic solution of geometric optimization problems "via" duality in control problems. I] **86i:49029**
- Blaquière, Augustin Impulsive optimal control with finite or infinite time horizon. **86j:49061**
- Kirkovita, Magdalen Ss. On equivalence of variational problems subject to constraints. **86c:49057**
- Klötzler, R. See Andrejewa, J. A., **86i:49029**
- Longman, R. W. See Özgören, M. K., **86f:49082**
- Motreanu, Dumitru (with Popa, Cătălin) Hamilton-Jacobi equations on infinite-dimensional Riemannian manifolds. **86i:49030**
- Ostermeyer, G.-P. Zur Regularisierung des Stoßes. [On the regularization of shock] (Not in MR)
- Özgören, M. K. (with Longman, R. W.) Automated derivation of optimal regulators for nonlinear systems by symbolic manipulation of Poisson series. **86f:49082**
- Panchenkov, A. N. Elements of the theory of a class of ill-posed extremal problems. (Russian) **86c:49058**
- Popa, Cătălin See Motreanu, Dumitru, **86i:49030**
- Rund, Hanno Congruences of null-extremals in the calculus of variations. **86d:49040**

secondary classifications (49C05)

- Ball, J. M. (with Mizel, Victor J.) One-dimensional variational problems whose minimizers do not satisfy the Euler-Lagrange equation. **86k:49002**
- Iwamoto, Seichi A dynamic inversion of the classical variational problems. **86c:49035**
- Mawhin, J. (with Willem, M.) Variational methods and boundary value problems for vector second order differential equations and applications to the pendulum equation. **86d:34067**
- Mimura, Fumitake See Sato, Ryuzo et al., **86j:90042**
- Mizel, Victor J. See Ball, J. M., **86k:49002**
- Muselli, Elena Delay control problems. (Italian. English summary) **86d:49005**
- Nôno, Takayuki See Sato, Ryuzo et al., **86j:90042**
- Sato, Ryuzo (with Nôno, Takayuki; Mimura, Fumitake) Hidden symmetries: Lie groups and economic conservation laws. **86j:90042**
- Willem, M. See Mawhin, J., **86d:34067**

49C10 Free problems and problems involving partial differential equations

Caffarelli, L. Variational problems with free boundaries. (See 86g:00010)

secondary classifications (49C10)

Ahmad, Siraj. See Roy Chowdhury, A., 86b:58135

Bdail, John B. See Logan, J. David, 86d:35132

Belmans, Josef. Free boundary problems for the Navier-Stokes equations. (French summary) 86a:35114

(with Friedman, Avner) Analyticity for the Navier-Stokes equations governed by surface tension on the free boundary. 86b:35167

Crandall, Michael G. (with Lions, Pierre-Louis) Two approximations of solutions of Hamilton-Jacobi equations. 86j:65121

Cryer, C. W. See Lin, Ying Ju, 86f:65176

Dedecker, Paul. Sur le formalisme de Hamilton-Jacobi-É. Cartan pour une intégrale multiple d'ordre supérieur. (English summary) [On the Hamilton-Jacobi-É. Cartan formalism for higher-order multiple integrals] 86c:58037

Friedman, Avner. See Belmans, Josef, 86b:35167

Lin, Ying Ju. (with Cryer, C. W.) An alternating direction implicit algorithm for the solution of linear complementarity problems arising from free boundary problems. 86f:65176

Lions, Pierre-Louis. See Crandall, Michael G., 86j:65121

Logan, J. David. (with Bdail, John B.) Conservation laws for second-order invariant variational problems. 86d:35132

Muñoz Masqué, Jaime. Canonical Cartan equations for higher order variational problems. 86k:58032

Niesgódka, M. Stability of a class of nonlinear evolution free boundary problems with respect to domain variations. 86a:35152

Roy Chowdhury, A. (with Ahmad, Siraj) A variational approach to Bäcklund and infinitesimal Bäcklund transformation for Kadomtsev-Petviashvili equation. 86b:58135

Tepper, David E. A mathematical model for a wake. 86b:35205

49C15 Problems in abstract spaces or involving functional relations other than differential equations

Athanasopoulos, Ioannis. (with Caffarelli, L.) A theorem of real analysis and its application to free boundary problems. 86j:49062

Auchmuty, Giles. Duality for nonconvex variational principles. 86a:49053

Caffarelli, L. See Athanasopoulos, Ioannis, 86j:49062

Cárja, O. The time optimal problem for boundary-distributed control systems. (Italian summary) 86d:49041

Crandall, Michael G. (with Lions, Pierre-Louis) Solutions de viscosité pour les équations de Hamilton-Jacobi dans des espaces de Banach. (English summary) [Viscosity solutions of Hamilton-Jacobi equations in Banach spaces] 86a:49054

Darkhovskii, B. S. (with Magaril-Ilyayev, G. G.) The local optimization method for the control of dynamical systems. (Russian) 86c:49059

Lions, Pierre-Louis. See Crandall, Michael G., 86a:49054

Magaril-Ilyayev, G. G. See Darkhovskii, B. S., 86c:49059

secondary classifications (49C15)

Alliney, S. (with Tralli, A.) Extended variational formulations and F.E. models for nonlinear beams under nonconservative loading. 86c:73012

Falbusovich, L. E. Stabilization of infinite-dimensional linear dynamic systems by the Kalman-Letov method. (Russian. English summary) 86m:93064

Filippov, V. M. Quasiclassical solutions of an inverse problem of the calculus of variations. (Russian) 86m:47090

Giaquinta, Mariano. Direct methods for regularity in the calculus of variations. 86c:58032

Prikhod'ko, A. P. The Bellman functional in infinite-dimensional space. (Russian) 86c:49037

Tralli, A. See Alliney, S., 86c:73012

49C20 Dynamic programming method

Barles, G. Deterministic impulse control problems. 86c:49060

Bensoussan, A. (with Boccardo, L.; Murat, F.) Homogenization of Bellman equations. 86k:49026

Boccardo, L. See Bensoussan, A. et al., 86k:49026

Da Prato, G. Direct solution of the Bellman equation for a stochastic control problem. 86g:49043

Some results on stationary Bellman equation in Hilbert spaces. 86i:49031

Some results on Bellman equation in Hilbert spaces and applications to infinite-dimensional control problems. (See 86g:93003)

Gonzales, Roberto L. (with Rofman, Edmundo) On deterministic control problems: an approximation procedure for the optimal case. I. The stationary problem. 86j:49032a

(with Rofman, Edmundo) On deterministic control problems: an approximation procedure for the optimal case. II. The nonstationary case. 86j:49032b

Gurman, V. I. (with Konstantinov, G. N.) Application of Bellman-Krotov sufficient conditions of optimality for investigation of controllable systems. (Russian) (See 86j:34001)

Havárneanu, T. Existence for the dynamic programming equation of control diffusion processes in Hilbert space. 86j:49063

Iwamoto, Seichi. A dynamic inversion of the classical variational problems. 86c:49035

Konstantinov, G. N. See Gurman, V. I., 86j:34001

Lasserre, J. B. A mixed forward-backward dynamic programming method using parallel computation. 86c:49036

Lions, Pierre-Louis. Optimal control and viscosity solutions. 86k:49027

Mirică, Șt. Erratum: "Stratified Hamiltonians and the optimal feedback control" [Ann. Mat. Pura Appl. (4) 133 (1983), 51-78; MR 85c:49033]. 86a:49055

Murat, F. See Bensoussan, A. et al., 86k:49026

Murray, D. M. (with Yakowitz, Sidney J.) Differential dynamic programming and Newton's method for discrete optimal control problems. 86b:49040

Prikhod'ko, A. P. The Bellman functional in infinite-dimensional space. (Russian) 86c:49037

Rofman, Edmundo. Approximation of Hamilton-Jacobi-Bellman equation in deterministic control theory. An application to energy production systems. 86i:49033

See also Gonzales, Roberto L., 86i:49032a and 86i:49032b

Taniguchi, Tsuneo. See Yamashita, K., 86c:49061

Vinter, R. B. Dynamic programming for optimal control problems with terminal constraints. 86f:49083

Yakowitz, Sidney J. See Murray, D. M., 86b:49040

Yamashita, K. (with Taniguchi, Tsuneo) On the estimation of the transient state of a synchronous machine by an optimal observer. 86c:49061

Zolezzi, T. Generalized dynamic programming. (See 86c:49005)

secondary classifications (49C20)

Belbas, S. A. A remark on dynamic programming with final state constraints. 86b:49048

Bensoussan, A. (with Borkar, V.) Ergodic control problem for one-dimensional diffusions with near-monotone cost. 86a:93137

Bordunov, N. N. Dynamic programming and conditions of optimality of control of stochastic convex mappings. 86g:90120

Borkar, V. See Bensoussan, A., 86a:93137

Da Prato, G. Some results on Bellman equation in Hilbert spaces. 86c:34123

Helman, Paul. (with Rosenthal, Arnon) A comprehensive model of dynamic programming. 86d:90157

Herrans Lucas, Luis. The Bellman-Dirichlet equation for two parabolic operators. (Spanish) 86f:35094

Ikhshanov, Sh. M. Properties of an optimal dual control algorithm for observation of discrete Gaussian processes. 86a:49031

Koloso, G. E. ★ Синтез оптимальных автоматических систем при случайных возмущениях. (Russian) [Synthesis of optimal automatic systems under random perturbations] 86d:93144

Levary, R. R. Errata: "Dynamic programming models with goal objectives" [Internat. J. Systems Sci. 15 (1984), no. 3, 309-314]. (Not in MR)

Lions, Pierre-Louis. Optimal stochastic control of diffusion type processes and Hamilton-Jacobi-Bellman equations. 86h:93073

Lipfert, Wilfried. Über ein stochastisches dynamisches Entscheidungsmodell mit allgemeinen Ertragsfunktionalen. (English summary) [On a stochastic dynamic decision model with general reward functionals] 86h:90113

Matseu, Michele. (with Mosco, U.; Vivaldi, Maria Agostina) Optimal impulse and continuous control with Hamiltonian of quadratic growth. 86g:49023

Mosco, U. See Matseu, Michele et al., 86g:49023

Panasjuk, A. I. The equation of attainability sets. (Russian) 86g:49048

Pragarauskas, H. On the control of jump processes. (See 86g:60006)

Rosenthal, Arnon. See Helman, Paul, 86d:90157

Tomskii, G. V. A method of successive approximations of the Bellman function. (Russian) 86c:90145

Vel'ov, V. M. On the local properties of Bellman's function for nonlinear time-optimal control problems. 86c:49025

Vivaldi, Maria Agostina. See Matseu, Michele et al., 86g:49023

Vyagin, V. A. On necessary and sufficient conditions for a maximin in control problems. (Russian) 86f:49079

49C99 None of the above, but in this section

Bordunov, N. N. Optimality conditions for multistep control of stochastic convex mappings. 86k:49028

Mirică, Șt. Stratified Hamilton-Jacobi equations and applications. 86c:49062

secondary classifications (49C99)

Barles, G. Remarques sur des résultats d'existence pour les équations de Hamilton-Jacobi du premier ordre. (English summary) [Remarks on some existence results for first-order Hamilton-Jacobi equations] 86f:35046

Crandall, Michael G. (with Lions, Pierre-Louis) Hamilton-Jacobi equations in infinite dimensions. I. Uniqueness of viscosity solutions. 86j:35154

Krupka, Demeter. (with Musilová, Jana) Hamilton extremals in higher order mechanics. 86h:70017

Lions, Pierre-Louis. See Crandall, Michael G., 86j:35154

Musilová, Jana. See Krupka, Demeter, 86h:70017

49Dxx Methods of successive approximations {For discrete problems, see 90Cxx; see also 65Kxx.}

Ashchepkov, L. T. (with Belov, B. I.; Bulatov, V. P.; Vasil'ev, O. V.; Srochko, V. A.; Tarasenko, N. V.) ★ Методы решения задач математического программирования и оптимального управления. (Russian) [Methods for solving problems of mathematical programming and of optimal control] 86j:49064

Belov, B. I. See Ashchepkov, L. T. et al., 86j:49064

Bulatov, V. P. See Ashchepkov, L. T. et al., 86j:49064

Cheng, Qian Sheng. See Xu, Wen Yuan. (Not in MR)

Srochko, V. A. See Ashchepkov, L. T. et al., 86j:49064

Tarasenko, N. V. See Ashchepkov, L. T. et al., 86j:49064

Vasil'ev, O. V. See Ashchepkov, L. T. et al., 86j:49064

Xu, Wen Yuan. (with Cheng, Qian Sheng) On boundedness of least square solutions. (Chinese. English summary) (Not in MR)

49D05 Methods based on necessary conditions

Aleksandrov, V. M. Approximate solution of optimal control problems. (Russian) **86d:49043**

secondary classifications (49D05)

Sumin, M. I. Sufficient conditions for elements of minimizing sequences in optimal control problems. (Russian) **86e:49048**

Warga, J. Iterative optimization with equality constraints. **86e:90101**

49D07 Gradient methods

Al-Baali, M. Descent property and global convergence of the Fletcher-Reeves method with inexact line search. **86d:49043**

Andreev, A. E. A modification of the gradient algorithm. (Russian) **86j:49005**

Arditti, David Un nouvel algorithme de recherche d'un ordre induit par des comparaisons par paires. (English summary) [A new algorithm for finding an order induced by paired comparisons] (See **86d:63004**)

Asselmeyer, B. Optimal control for nonlinear systems calculated with small computers. **86e:49063**

Barahona Droguez, Manuel Application of the gradient-conditioned method to an optimal control problem. (Spanish. English summary) **86g:49044**

Chang, Lyong Sŏp An algorithm of the modified stochastic conjugate gradient method and its convergence. (Korean. English summary) **86a:49058**

Chen, Zhi See Deng, Nai Yang, **86f:49084**

Deng, Nai Yang (with Chen, Zhi) Generalized conjugate gradient methods with quasi-Newton updates. (Chinese. English summary) **86f:49084**

Hill, Stacy D. Reduced gradient computation in prediction error identification. **86f:49085**

Landon, L. S. Reduced gradient methods. (See **86h:90101**)

Mayne, D. Q. See Polak, Elijah, **86j:49066**

Motet, G. Une application de la théorie du contrôle optimal en ultracentrifugation. (English summary) [An application of optimal control theory in ultracentrifugation] **86e:49064**

Polak, Elijah (with Mayne, D. Q.) Algorithm models for nondifferentiable optimization. **86j:49066**

Rustem, B. A class of superlinearly convergent projection algorithms with relaxed stepsizes. **86e:49065**

Ruszczynski, A. (with Syski, Wojciech) Stochastic approximation method with gradient averaging for unconstrained problems. **86b:49041**

Smagina, E. M. Optimization of linear control systems with assigned spectrum. **86e:49066**

Syski, Wojciech See Ruszczynski, A., **86b:49041**

Teo, K. L. See Wong, K. H., **86b:49042**

Wang, Chang Yu Some generalizations of convergence for an improved reduced gradient method. (Chinese) (Not in MR)

Wong, K. H. (with Teo, K. L.) A conditional gradient method for a class of time-lag optimal control problems. **86b:49042**

secondary classifications (49D07)

Adams, Loyce m -step preconditioned conjugate gradient methods. **86h:65037**

Benedict, Robert L. See Hou, J. W. et al., **86m:73052**

Bihain, A. Optimization of upper semidifferentiable functions. **86g:90091**

Bogomolny, A. (with Hou, J. W.) Shape optimization approach to numerical solution of the obstacle problem. **86e:65085**

Chan, Tony F. (with Saad, Y.) Iterative methods for solving bordered systems with applications to continuation methods. **86h:65038**

Glowinski, Roland (with Keller, H. B.; Reinhart, L.) Continuation-conjugate gradient methods for the least squares solution of nonlinear boundary value problems. **86j:65156**

Gollan, Bernhard Inner estimates for the generalized gradient of the optimal value function in nonlinear programming. **86e:90110**

Gorvits, G. G. Combined gradient algorithms for minimization of ravine functions for problems of control and identification. (Russian. English summary) **86m:90136**

Haug, Edward J. See Hou, J. W. et al., **86m:73052**

Hou, J. W. (with Haug, Edward J.; Benedict, Robert L.) Shape optimization of elastic bars in torsion. **86m:73052**

See also Bogomolny, A., **86e:65085**

Keller, H. B. See Glowinski, Roland et al., **86j:65156**

Khabibullin, R. F. The subgradient method of minimization of convex functionals and estimates of its effectiveness. (Russian)

(Kiwiel, Krzysztof C.) See Shor, N. Z., **86f:90138**

Kouonov, I. V. Application of the method of conjugate subgradients to minimization of quasiconvex functionals. (Russian)

A method of conjugate subgradient type for minimization of functionals. (Russian)

Neumann, Jan Numerical identification of a coefficient in a parabolic quasilinear equation. (Russian and Czech summaries) **86f:93045**

Nour-Omid, B. (with Parlett, B. N.) Element preconditioning using splitting techniques. **86h:65046**

Paoli, V. M. A gradient method of finite penalties with controlling parameters. (Russian. English summary) **86m:90143**

Parlett, B. N. See Nour-Omid, B., **86h:65046**

Phelps, R. R. Metric projections and the gradient projection method in Banach spaces. **86m:90177**

Reinhart, L. See Glowinski, Roland et al., **86j:65156**

(Ruszczynski, A.) See Shor, N. Z., **86f:90138**

Saad, Y. See Chan, Tony F., **86h:65038**

Shor, N. Z. ★ Minimization methods for nondifferentiable functions. **86f:90138**

Zgurovskii, M. Z. An algorithm for numerical identification of parameters of the nonlinear diffusion and mass transport equation. (Russian) **86d:93047**

49D10 Methods of steepest descent type

Chrysosverghi, I. Numerical approximation of nonconvex optimal control problems defined by parabolic equations. **86e:49087**

Grolleau, M. See Humeau, J.-P., **86e:49038**

Günay, Süleyman (with Zor, İbrahim) Some optimization methods. (Turkish. English summary) **86f:49086**

Humeau, J.-P. (with Grolleau, M.) Coefficient control for a distributed parabolic system. **86e:49038**

Luchka, A. Yu. (with Noschenko, O. È.; Tukalevskaya, N. I.) Variational-gradient method. (Russian) **86d:49044**

Noschenko, O. È. See Luchka, A. Yu. et al., **86d:49044**

Smith, M. J. A descent algorithm for solving monotone variational inequalities and monotone complementarity problems. **86f:49087**

Tukalevskaya, N. I. See Luchka, A. Yu. et al., **86d:49044**

Vedenyapina, S. I. Search for optimal control by the method of steepest descent. (Russian. English summary) (See **86g:34001**)

Zor, İbrahim See Günay, Süleyman, **86f:49086**

secondary classifications (49D10)

Karmanov, V. G. (with Tret'yakov, A. A.) Estimate of the rate of convergence of some methods of coordinate-wise descent. (Russian) **86k:90121**

Tret'yakov, A. A. See Karmanov, V. G., **86k:90121**

49D15 Methods of Newton-Raphson, Galerkin and Ritz types

Abasov, T. M. Dual methods of a higher order of convergence in the problem of search for saddle points with constraints. (Russian. English and Azerbaijani summaries) **86j:49087**

Alt, Walter (with Mackenroth, U.) On the numerical solution of state constrained coercive parabolic optimal control problems. **86b:49043**

Arunachalam, V. P. See Palanisamy, K. R., **86d:49047**

Banks, H. T. (with Kunisch, K.) The linear regulator problem for parabolic systems. **86h:49036**

Boisiev, L. A. Some variational problems for degenerate second-order ordinary equations. (Russian. English and Azerbaijani summaries) **86b:49044**

Calves, Leon-Claude (with Vilbe, Pierre; Glouannec, Patrick) Orthonormal and nonorthonormal least squares approximation of a function subject to linear equality constraints. **86j:49068**

Chen, Muh Yang See Huang, Ch'í, **86f:49088**

Chou, Jyh Horng (with Horng, Ing Rong) Shifted Legendre series analysis of linear optimal control systems incorporating observers. **86j:49069**

See also Horng, Ing Rong, **86j:49072**

Cuvelier, C. Calculus of variations and numerical analysis: the finite element method. (Dutch) (See **86m:49005**)

Dmitriev, A. V. (with Druzhinin, È. I.) The Newton-Kantorovich method in the theory of control of the finite state of a nonlinear system. (Russian) **86a:49057**

Dolidze, Z. O. Determination of the common root of mappings and its application to finding the solution of a variational inequality. (Russian) **86b:49045**

Druzhinin, È. I. See Dmitriev, A. V., **86a:49057**

Dunn, J. C. See Hughes, G. C., **86d:49046**

Glouannec, Patrick See Calves, Leon-Claude et al., **86j:49068**

Grandinetti, L. On a new algorithm for nonlinear optimization based on nonquadratic modelling of the objective function. (Russian summary) **86j:49070**

Greenstadt, John A quasi-quasi-Newton method for generating quasi-Choleski factors. **86d:49045**

Hager, William W. Approximations to the multiplier method. **86a:49058**

Hofmann, R. Eine Verallgemeinerung des Ritz-Prozesses. (English and Russian summaries) [A generalization of the Ritz process] **86j:49071**

Horng, Ing Rong (with Chou, Jyh Horng) Shifted Chebyshev direct method for solving variational problems. **86j:49072**

See also Chou, Jyh Horng, **86j:49069**

Huang, Ch'í (with Chen, Muh Yang) Analysis and optimal control of time-varying linear systems via shifted Legendre polynomials. **86f:49088**

Hughes, G. C. (with Dunn, J. C.) Newton-Goldstein convergence rates for convex constrained minimization problems with singular solutions. **86d:49046**

Joffre, G. H. Calcul par une méthode de Ritz de la forme de ménisques électrisés. (English summary) [Using a Ritz method to calculate the form of electrified menisci] **86a:49059**

Kacki, Edward (with Stempieć, Zdzisław) About approximation of optimal control of a certain process described by a partial differential equation of fourth order. (Russian and Polish summaries) **86g:49045**

Kunisch, K. See Banks, H. T., **86h:49036**

Lamm, Patricia K. Spline approximations for nonlinear hereditary control systems. **86j:49073**

Mackenroth, U. See Alt, Walter, **86b:49043**

Palanisamy, K. R. (with Arunachalam, V. P.) Solution of variational problems using block pulse functions. **86d:49047**

Redkovskii, N. N. Method of minimization with the aid of curvilinear descent. **86d:49048**

Sachs, Ekkehard Convergence rates of quasi-Newton algorithms for some nonsmooth optimization problems. **86i:49034**

Stempieć, Zdzisław See Kacki, Edward, **86g:49045**

Tsintsadze, T. Yu. Problems on the convergence of a procedure of successive refinement of optimum trajectory projections. (Russian. English and Georgian summaries) **86j:49074**

Vasil'ev, F. P. The regularized Steffensen method with approximation of the inverse operator. (Russian) **86c:49068**

Newton's regularization method with imprecise specification of initial data. (Russian) **86k:49029**

Vilbe, Pierre See Calvez, Leon-Claude et al., **86j:49068**

Zemla, Adam Galerkin's method of variable directions for parabolic obstacle variational inequalities. (Polish) **86c:49039**

secondary classifications (49D15)

Dennis, J. E., Jr. (with Moré, Jorge J.) Quasi-Newton methods, motivation and theory. (Chinese) **86a:65040**

Dias, Alejandro R. (with Kikuchi, Noboru; Taylor, John E.) Optimal design formulations for finite element grid adaptation. **86f:73036**

Di Pillo, G. (with Grippo, L.; Lampariello, F.) A Newton-type computing technique for optimal control problems. **86i:49036**

Glowinski, Roland (with Le Tallec, Patrick) Numerical solution of large nonlinear boundary value problems by quadratic minimization techniques. **86g:65209**

Grippo, L. See Di Pillo, G. et al., **86i:49036**

Groh, Ulrich Konstruktion vollkonservativer Differenzenschemata mittels Galerkin-Verfahren. I. [Construction of completely conservative difference schemes using the Galerkin method. I] **86c:65114**

Günay, Süleyman (with Zor, İbrahim) Some optimization methods. (Turkish. English summary) **86f:49086**

Kalaba, R. (with Tishler, A.) Generalized Newton algorithm to minimize a function with many variables using computer-evaluated exact higher-order derivatives. **86g:65122**

Kikuchi, Noboru See Dias, Alejandro R. et al., **86f:73036**

Lampariello, F. See Di Pillo, G. et al., **86i:49036**

Le Tallec, Patrick See Glowinski, Roland, **86g:65209**

Luchka, A. Yu. (with Noschenko, O. E.; Tukalevskaya, N. I.) Variational-gradient method. (Russian) **86d:49044**

Moré, Jorge J. See Dennis, J. E., Jr., **86a:65040**

Nash, Stephen G. Preconditioning of truncated-Newton methods. **86i:65035**

Noschenko, O. E. See Luchka, A. Yu. et al., **86d:49044**

(Sun, Wen Yu) See Dennis, J. E., Jr., **86a:65040**

Taylor, John E. See Dias, Alejandro R. et al., **86f:73036**

Tersian, S. A. On a minimax theorem. **86g:49019**

Tishler, A. See Kalaba, R., **86g:65122**

Tukalevskaya, N. I. See Luchka, A. Yu. et al., **86d:49044**

Wendland, W. L. Boundary element methods and their asymptotic convergence. **86f:65201**

Zor, İbrahim See Günay, Süleyman, **86f:49086**

49D20 Methods of relaxation type

Khabibullin, R. F. See Perfilov, S. N. (Not in MR)

Nedeljković, Nikola B. New algorithms for discrete-time optimal control problems. **86b:49046**

Perfilov, S. N. (with Khabibullin, R. F.) Optimization of relaxation processes. (Russian)

49D25 Finite difference methods

Aboustit, B. L. (with Advani, S. H.; Lee, June Key) Variational principles and finite element simulations for thermoelastic consolidation. **86a:49060**

Advani, S. H. See Aboustit, B. L. et al., **86a:49060**

Alt, Walter On the approximation of infinite optimization problems with an application to optimal control problems. **86g:49046**

Azhogin, V. V. (with Zgurovskii, M. Z.; Korbics, József) Application of a difference scheme in distributed parameter optimal control system design. (Russian and Polish summaries) **86f:49069**

Barahona Drogue, Manuel Suboptimality of the Runge-Kutta approximation in an optimal control problem. (Spanish. English summary) (Not in MR)

Colli Franzone, Piero (with Verdi, C.) Error estimates for an approximation of a problem of percolation in gently sloping beaches. **86a:49061**

Gavrilova, N. L. (with Golubenko, N. G.; Ladikova, E. Yu.) Synthesis of nonlinear discrete systems with an estimate of their optimality. (Russian) **86a:49062**

Golubenko, N. G. See Gavrilova, N. L. et al., **86a:49062**

Huntley, E. Optimal boundary control of a tracking problem for a parabolic distributed parameter system. **86j:49075**

Korbics, József See Azhagin, V. V. et al., **86f:49069**

Ladikova, E. Yu. See Gavrilova, N. L. et al., **86a:49062**

Lee, June Key See Aboustit, B. L. et al., **86a:49060**

Mandel, Jan Étude algébrique d'une méthode multigrille pour quelques problèmes de frontière libre. (English summary) [Algebraic study of a multigrid method for some free-boundary problems] **86i:49035**

Simionescu, C. L. Linearisation by optimal control. (See **86g:93002**)

Tatjewski, P. A hierarchical algorithm for large-scale system optimization problems with duality gaps. **86b:49047**

Verdi, C. See Colli Franzone, Piero, **86a:49061**

Zgurovskii, M. Z. See Azhagin, V. V. et al., **86f:49069**

secondary classifications (49D25)

Dębińska-Nagórka, Anna Sur la méthode des différences finies pour un problème de contrôle optimal. (Russian and Polish summaries) [On the finite-difference method for an optimal control problem] **86c:65120**

Gavriluk, I. P. An estimate of the rate of convergence of a difference scheme for a class of fourth-order variational inequalities. (Russian) **86c:65150**

Gonzales, Roberto L. (with Rofman, Edmundo) On deterministic control problems: an approximation procedure for the optimal cost. I. The stationary problem. **86i:49032a**

(with Rofman, Edmundo) On deterministic control problems: an approximation procedure for the optimal cost. II. The nonstationary case. **86i:49032b**

Hlaváček, Ivan (with Krížek, Michal) Internal finite element approximation in the dual variational method for the biharmonic problem. (Russian and Czech summaries) **86h:65177**

Optimization of the domain in elliptic problems by the dual finite element method. (Czech summary) **86i:65073**

Křížek, Michal See Hlaváček, Ivan, **86h:65177**

Maitre, Jean-François (with Musy, François) Multigrid methods: convergence theory in a variational framework. **86c:65123**

Musy, François See Maitre, Jean-François, **86c:65123**

Rofman, Edmundo See Gonzales, Roberto L., **86i:49032a** and **86i:49032b**

Werner, Bodo Complementary variational principles and nonconforming Trefftz elements. **86h:49011**

49D27 Decomposition methods

Pashko, S. V. Rate of convergence of the stochastic linearization method. (Russian. English summary) **86f:49090**

secondary classifications (49D27)

Hoang Tuy Concave minimization under linear constraints with special structure. **86h:90089**

(Lits, L.) See Skelton, R. E., **86a:93008**

Skelton, R. E. Comments on: "Order reduction of linear state-space models via optimal approximation of the nondominant modes" [Large Scale Systems **2** (1981), no. 3, 171-184; MR 83d:93011] by L. Litz. **86a:93008**

49D29 Multiplier methods

Di Pillo, G. (with Grippo, L.; Lampariello, F.) A Newton-type computing technique for optimal control problems. **86i:49036**

Grippo, L. See Di Pillo, G. et al., **86i:49036**

Lampariello, F. See Di Pillo, G. et al., **86i:49036**

secondary classifications (49D29)

Spingarn, Jonathan E. Applications of the method of partial inverses to convex programming: decomposition. **86m:90120**

49D30 Other methods, not based on necessary conditions (penalty function, etc.)

Aiyoshi, Eitaro (with Shimizu, Kiyotaka) A solution method for the static constrained Stackelberg problem via penalty method. **86a:49063**

Amouroux, M. (with Courdesse, M.; El Jai, A.) Comparison of two optimal feedback controls for parabolic systems. **86f:49091**

Belbas, S. A. A remark on dynamic programming with final state constraints. **86b:49048**

Beltrami, E. J. A note on the method of multipliers. **86f:49092**

Brauner, C. (with Nicolaenko, B.) A general approximation of some free boundary problems by bounded penalization. **86c:49069**

Conn, Andrew R. Penalty function methods. (See **86h:90101**)

Courdesse, M. See Amouroux, M. et al., **86f:49091**

Di Pillo, G. (with Grippo, L.) A class of continuously differentiable exact penalty function algorithms for nonlinear programming problems. **86a:49064**

El Jai, A. See Amouroux, M. et al., **86f:49091**

Feiring, Bruce R. An exact penalty method for solving optimal control problems. **86b:49049**

See also Tomita, Ken, **86d:49051**

Finkel'shtein, A. V. Application of Ekeland's theorem for derivation of necessary and sufficient conditions for optimality of sequences. (Russian) **86c:49040**

Grippo, L. See Di Pillo, G., **86a:49064**

Gründemann, H. Iterative Methoden zur Lösung von Variationsproblemen für inkompressible Vorgänge. [Iterative methods for the solution of variational problems of incompressible processes] (See **86d:65013**)

Haslinger, Jaroslav (with Neittaanmäki, P.) On the method of penalization in design optimization of systems governed by some unilateral boundary value problems. **86h:49037**

Ho, Shinn Jang See Horng, Ing Rong, **86j:49076**

Horng, Ing Rong (with Ho, Shinn Jang) Application of discrete Chebyshev polynomials to the optimal control of digital systems. **86j:49076**

Kiwiel, Krzysztof C. An exact penalty function algorithm for nonsmooth convex constrained minimization problems. **86c:49070**

Lasner, J. B. An approach to optimal control problems via exact penalty functions. **86c:49041**

Mukherjee, R. N. See Prasad, Shiv, **86b:49050** and **86c:49042**

Neittaanmäki, P. See Haslinger, Jaroslav, **86h:49037**

Nicolaenko, B. See Brauner, C., **86c:49069**

Prasad, Shiv (with Mukherjee, R. N.) A generalization of a result of Jones and McCormick on optimal control problem. **86b:49050**

(with Mukherjee, R. N.) A note on numerical solution of dynamical optimization problems. **86c:49042**

Rykov, A. S. The combined method of penalty functions and projection. (Russian) **86d:49049**

Shimizu, Kiyotaka See Aiyoshi, Eitaro, **86a:49063**

Song, Ch'ang Ho Rothe's and penalty methods for monotone parabolic variational inequalities of the first kind. (Korean. English summary) **86f:49093**

Tkachev, A. M. Geometric method for numerical solution of a terminal problem of optimal control. **86d:49050**

Tomita, Ken (with Feiring, Bruce R.) Trajectory optimization for maneuvering satellites. **86d:49051**

secondary classifications (49D30)

- Attia, N. F. See Broyden, C. G., 86b:90107
 Bertsekas, D. Augmented Lagrangian and differentiable exact penalty methods. (See 86b:90101)
 Broyden, C. G. (with Attia, N. F.) A smooth sequential penalty function method for solving nonlinear programming problems. 86b:90107
 Egorushkin, A. A. A modification of the barrier function method. (Russian) 86g:90090
 Iteration linearization in the method of barrier functions. (Russian) 86i:85033
 Griffin, T. B. See Reddy, B. D. et al., 86k:73023
 Großmann, Chr. Dualität und Strafmethode bei elliptischen Differentialgleichungen. (English and Russian summaries) [Duality and penalty methods in elliptic differential equations] 86g:85211
 Komornik, Vilmos (with Tiba, Dan) Contrôles de systèmes fortement non linéaires. (English summary) [Control of strongly nonlinear systems] 86h:49029
 Marais, M. J. See Reddy, B. D. et al., 86k:73023
 Müller, A. M. K. Eine modifizierte Strafmethode zur Lösung von Optimierungsaufgaben. [A modified penalty method for the solution of optimization problems] 86b:90113
 Myśliński, Andrzej (with Sokolowski, Jan) Nondifferentiable optimization problems for elliptic systems. 86i:73037
 Neittaanmäki, P. (with Tiihonen, T.) Sensitivity analysis for a class of shape control problems. (Not in MR)
 Panin, V. M. Finite penalty methods with a linear approximation of the constraints. I. 86g:90103
 Finite penalty methods with a linear approximation of the constraints. II. (Russian. English summary) 86g:90134
 Reddy, B. D. (with Griffin, T. B.; Marais, M. J.) A penalty approach to the rate problem in small-strain plasticity. 86k:73023
 Scholz, Reinhard Numerical solution of the obstacle problem by the penalty method. (German summary) 86e:85100
 Shanno, D. F. (with Whitaker, Lyn R.) A note on solving nonlinear minimax problems via a differentiable penalty function. 86e:49028
 Sokolowski, Jan See Myśliński, Andrzej, 86i:73037
 Tiba, Dan See Komornik, Vilmos, 86h:49029
 Tiihonen, T. See Neittaanmäki, P. (Not in MR)
 Vasil'ev, P. P. Regularization of higher order methods with imprecisely given initial data. (Russian) 86g:85125
 Whitaker, Lyn R. See Shanno, D. F., 86e:49028

49D35 Methods of linear programming type

- Berachchanakili, Ya. M. See Meerov, M. V., 86g:93002
 Dauksas, V. Z. See Gabasov, R. et al., 86j:49077
 Ėrinček, N. M. See Gornov, A. Yu. et al., 86k:49031
 Erovenko, L. D. An algorithm for optimization of linear time-dependent systems with terminal restricting inequalities. (Russian. English summary) 86a:49065
 Fedorenko, R. P. See Perebinos, M. F., 86b:49051
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- Čelikovsk, S. On the connection between stability and local controllability. (Russian) **86e:49078**
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49E25 Effect of perturbations on controllability

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49E30 Relations between controllability and optimal solutions

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49E99 None of the above, but in this section

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- Sevast'yanov, G. E. (with Longman, R. W.) Gain measures of controllability and observability. **86g:93040**

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- 49F05 Exterior differential forms, invariant integrals (Cartan theory) [See mainly 58A15.]

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- Minimal surfaces with free boundaries and related problems. (French summary) **86h:49048**
- Kinderlehrer, David. New methods in the study of free boundary problems. **86f:49105**
- Korevaar, N. The normal variations technique for studying the shape of capillary surfaces. (French summary) **86g:49052**
- Nakach, Nobumitsu. On free boundary Plateau problem for general-dimensional surfaces. **86i:49041**
- Rodrigues, J.-F. On the stability of the free boundary in the obstacle problem for a minimal surface. **86a:49080**
- Takakuwa, Shōichirō. On a parameter dependence of solvability of the Dirichlet problem for nonparametric surfaces of prescribed mean curvature. **86d:49060**
- Taylor, Jean E. Constructing crystalline minimal surfaces. **86f:49106**
- Equilibrium shapes of surfaces and grain boundaries. (See **86e:73002**)
- White, Brian Cabell. Regularity of area-minimizing hypersurfaces at boundaries with multiplicity. **86h:49049**

Mappings that minimize area in their homotopy classes. **86f:49107**

secondary classifications (49F10)

- Alt, Hans Wilhelm (with Tomi, Friedrich) Regularity and finiteness of solutions to the free boundary problem for minimal surfaces. **86j:53010**
- Benjamin, T. B. (with Cocker, A. D.) Liquid drops suspended by soap films. I. General formulation and the case of axial symmetry. **86k:76021a**
(with Cocker, A. D.) Liquid drops suspended by soap films. II. Simplified model. **86k:76021b**
- Bréas, H. Problèmes de convergence dans certaines EDP non linéaires et applications géométriques. [Convergence problems in some nonlinear PDEs and geometric applications] (See **86f:35004**)
(with Coron, Jean-Michel) Convergence of solutions of H -systems or how to blow bubbles. **86g:53007**
- Caffarelli, L. (with Hardt, Robert; Simon, Leon) Minimal surfaces with isolated singularities. **86h:53007**
- Cocker, A. D. See Benjamin, T. B., **86k:76021a** and **86k:76021b**
- Coron, Jean-Michel See Bréas, H., **86g:53007**
- Fomenko, A. T. Absolute minima of the volume functional and of the Dirichlet functional on Riemannian manifolds. (Russian) **86d:58028**
- Gées, Cécilia Contin The stability of minimal cones of codimension greater than one in R^n . **86k:53072**
- Grigorov, L. S. Integral condition for the equilibrium of capillary surfaces. (Russian) **86f:76017**
- Hardt, Robert See Caffarelli, L. et al., **86h:53007**
- Herlt, E. See Neugebauer, G., **86c:83022**
- Jarušek, Jiří Contact problems with bounded friction. Semicoercive case. **86k:73059**
- Kawai, Shigeo A theorem of Bernstein type for minimal surfaces in R^4 . **86a:53007**
- Lawson, H. Blaine, Jr. (with Michelsohn, Marie-Louise) Embedding and surrounding with positive mean curvature. **86g:53045a**
(with Michelsohn, Marie-Louise) Approximation by positive mean curvature immersions: frizzing. **86g:53045b**
- Li, Peter (with Schoen, Richard; Yau, Shing Tung) On the isoperimetric inequality for minimal surfaces. **86e:53004**
- Michelsohn, Marie-Louise See Lawson, H. Blaine, Jr., **86g:53045a** and **86g:53045b**
- Miersemann, Erich Zur gemischten Randwertaufgabe für die Minimalflächenungleichung. [On the mixed boundary value problem for the minimal surface equation] **86m:35065**
- Montesinos, A. Differential geometric statement of variational equations for abstract fluids. **86i:58036**
- Narchae, A. See Selsov, Yu. B. et al., **86i:35076**
- Neugebauer, G. (with Herlt, E.) Einstein-Maxwell fields inside and outside rotating sources as minimal surfaces. **86c:83022**
- Nurmuradov, A. See Selsov, Yu. B. et al., **86i:35076**
- Osserman, R. The minimal surface equation. **86b:58128**
- Quien, Norbert (with Tomi, Friedrich) Nearly planar Jordan curves spanning a given number of minimal immersions of the disc. **86j:53014**
- Rodrigues, J.-F. On the stability of the obstacle Plateau problem on locally pseudoconvex domains. (French summary) **86c:58038**
- Sauvigny, Friedrich Die zweite Variation von Minimalflächen im R^p mit polygonalem Rand. [The second variation of minimal surfaces in R^p with polygonal boundary] **86k:58026**
- Schoen, Richard See Li, Peter et al., **86e:53004**
- Selsov, Yu. B. (with Nurmuradov, A.; Narchae, A.) Surfaces impermeable to solutions of parabolic equations. (Russian. English summary) **86i:35076**
- Simon, Leon See Caffarelli, L. et al., **86h:53007**
- Smyth, Brian Stationary minimal surfaces with boundary on a simplex. **86j:53015**
- Tamanini, I. On the sphericity of liquid droplets. (French summary) **86b:53007**
- Temam, R. Variational problems with singular solutions. (See **86f:00018**)
- Thiel, Ursula The index theorem for k -fold connected minimal surfaces. **86j:58031**
- Toksdorf, Peter A parametric variational principle for minimal surfaces of varying topological type. **86g:58037**
- Tomi, Friedrich (with Tromba, A. J.) On Plateau's problem for minimal surfaces of higher genus in R^3 . **86j:58032**
See also Alt, Hans Wilhelm, **86j:53010** and Quien, Norbert, **86j:53014**
- Tromba, A. J. See Tomi, Friedrich, **86j:58032**
- Williams, Graham H. The Dirichlet problem for the minimal surface equation. (See **86f:00018**)
- Yau, Shing Tung See Li, Peter et al., **86e:53004**

49F15 Morse theory in Hilbert and other spaces [See also 57R27, 58Exx.]

Pierce, John Festus Morse theory in the context of elastostatics: a prototypical problem. **86f:49108**

secondary classifications (49F15)

- Ekeland, Ivar A Morse theory for Hamiltonian systems. (See **86f:00018**)
- Fujiwara, Okitsugu On the differentiability of optimal values for bounded nonlinear programs with equality constraints. **86e:90109**
- Rund, Hanno Gauge transformations of type (0, 2) tensor fields and associated variational principles. **86f:58040**
- Schiffner, Karl-Helms Eine globalanalytische Behandlung des Douglaseschen Problems. (English summary) [A global-analytic treatment of the Douglas problem] **86d:58023**
- Tromba, A. J. On the Morse number of embedded and nonembedded minimal immersions spanning wires on the boundary of special bodies in R^3 . **86e:58015**

49F20 Geometric measure and integration theory, integral and normal currents, flat chains and cochains, varifolds [See also 28A75, 32C30, 58A25, 58C35.]

- Almgren, F. Approximation of rectifiable currents by Lipschitz Q -valued functions. **86h:49050**
Optimal isoperimetric inequalities. **86j:49084**
- Berger, Melvyn S. Variational principles for equilibrium figures of fluids without symmetry assumptions. (French summary) **86d:49061**
- Đào Trọng Thi Isoperimetric inequalities for multivarifolds. (Russian) **86j:49085**
- Hutchinson, John E. Minimising curvature—a higher-dimensional analogue of the Plateau problem. (See **86f:00018**)
- Isakov, N. M. A problem of H. Federer. (Russian) (See **86c:34003**)
- Massari, U. Sets with a finite perimeter on manifolds. (Italian. English summary) **86a:49081**
- Simon, Leon Survey lectures on minimal submanifolds. **86g:49053**
- Solomon, Bruce A new proof of the closure theorem for integral currents. **86a:49082**
On the Gauss map of an area-minimizing hypersurface. **86e:49079**
- White, Brian Cabell Generic regularity of unoriented two-dimensional area minimizing surfaces. **86j:49086**
- Xin, Yuan Long An application of integral currents to the vanishing theorems. **86b:49060**

secondary classifications (49F20)

- Šilhavý, M. The existence of the flux vector and the divergence theorem for general Cauchy fluxes. **86k:73002**
- Simon, Leon Isolated singularities for extrema of geometric variational problems. (See **86f:00018**)
- Wiesacker, John André Translative Poincaré formulae for Hausdorff rectifiable sets. **86e:52005**

49F22 Existence and structure of solutions to variational problems in geometric measure-theoretic setting

- Almgren, F. (with Super, B.) Multiple-valued functions in the geometric calculus of variations. (French summary) **86i:49042**
- Bandle, Catherine (with Mossino, J.) Application du réarrangement à une inéquation variationnelle. (English summary) [Applying rearrangement to a variational inequality] **86a:49083**
- Barosi, Elisabetta (with Gonzalez, E.) Least area problems with a volume constraint. (French summary) **86a:49084**
- Congedo, Giuseppe (with Emmer, M.) Equilibrium configurations of rotating liquid masses. (French summary) **86a:49085**
- Đào Trọng Thi Multivarifolds and problems of minimization of functionals of multidimensional volume type. (Russian) **86g:49054**
- Duggan, John $W^{2,p}$ regularity for varifolds with mean curvature. (See **86f:00018**)
- Emmer, M. See Congedo, Giuseppe, **86a:49085**
- Giaquinta, Mariano (with Giusti, Enrico) The singular set of the minima of certain quadratic functionals. **86a:49086**
- Giusti, Enrico See Giaquinta, Mariano, **86a:49086**
- Gonzalez, E. See Barosi, Elisabetta, **86a:49084**
- Massari, U. The parametric problem of capillarity: the case of two and three fluids. (French summary) **86b:49081**
- Mossino, J. See Bandle, Catherine, **86a:49083**
- Nance, Dana W. A multiplicity estimate for projections of surfaces. **86j:49087**
- Pitts, Jon T. Regular minimal hypersurfaces exist on manifolds in dimensions up to six. **86g:49055**
- Rund, Hanno Null-distributions in the calculus of variations of multiple integrals. **86a:49087**
- Super, B. See Almgren, F., **86i:49042**
- Taylor, Jean E. Is there gravity-induced facetting of crystals? (French summary) **86c:49049**

secondary classifications (49F22)

- Gulliver, R. Necessary conditions for submanifolds and currents with prescribed mean curvature vector. **86i:53032**
- Harvey, Reese (with Lawson, H. Blaine, Jr.) The minimal varieties associated to a closed form. (See **86d:53001**)
- Lawson, H. Blaine, Jr. See Harvey, Reese, (86d:53001)
- Morgan, Frank On finiteness of the number of stable minimal hypersurfaces with a fixed boundary. **86j:58033**
The exterior algebra $\Lambda^k R^n$ and area minimization. **86i:53036**
- Solomon, Bruce A new proof of the closure theorem for integral currents. **86a:49082**
- Tasaki, Hiroyuki Certain minimal or homologically volume minimizing submanifolds in compact symmetric spaces. **86k:53064**
- White, Brian Cabell Regularity of area-minimizing hypersurfaces at boundaries with multiplicity. **86h:49049**
Mappings that minimize area in their homotopy classes. **86f:49107**
Generic regularity of unoriented two-dimensional area minimizing surfaces. **86j:49086**
- Ziemer, William P. Smooth foliations generated by functions of least gradient. (See **86f:00018**)
- 49F25 Surface area; Weierstrass and Burkill integrals, subadditive set functions
- Brandi, Primo (with Salvadori, Anna) The nonparametric integral of the calculus of variations as a Weierstrass integral: existence and representation. **86i:49043**
- Fiacca, Antonella (with Lodovici, Carla) The axioms (H_1) , (H_2) , (H_3) in the context of the Burkill-Cesari integral. (Italian) (See **86i:00019**)

- Lodovici, Carla. See *Flacca, Antonella*, (86i:00019)
 Salvadori, Anna. See *Brandi, Primo*, (86i:49043)

secondary classifications (49F25)

- Acerbi, Emilio (with Buttazzo, Giuseppe) Semicontinuous envelopes of polyconvex integrals. **86c:49012**
 Buttazzo, Giuseppe. See *Acerbi, Emilio*, (86c:49012)

49F99 None of the above, but in this section

- Chou, Jyh Horng (with Hsia, Wei Shen; Lee, Tan Yu) Second order optimality conditions for mathematical programming with set functions. **86g:49056**
 Hsia, Wei Shen. See *Chou, Jyh Horng et al.*, (86g:49056)
 Lee, Tan Yu. See *Chou, Jyh Horng et al.*, (86g:49056)
 Pinaut, Steven C. An isoperimetric inequality for surfaces stationary with respect to an elliptic integrand and with at most three boundary components. **86c:49080**

secondary classifications (49F99)

- Bua, J. C. P. The Lagrange multiplier rule on manifolds and optimal control of nonlinear systems. **86c:58035**
 Hermann, Robert. ★ Topics in the geometric theory of integrable mechanical systems. **86j:58139**
 Narmanov, A. Ya. Controllability sets of control systems that are fibers of a foliation of codimension one. (Russian) **86d:57012**
 Rund, Hanno. Variational principles for field variables that are subject to group actions. **86k:58028**
 Struwe, Michael. Large H -surfaces via the mountain-pass-lemma. **86d:58024**

49Gxx Variational methods for eigenvalues [See also 47A70.]

49G05 Variational approach to eigenvalues

- Abramov, Yu. Sh. Variational approach to the problem of the control of the spectrum of conservative dynamical systems. (Russian) **86d:49063**
 Barnes, David C. Extremal problems for eigenvalues with applications to buckling, vibration and sloshing. **86f:49100**
 Bratus', A. S. (with Sel'ranian, A. P.) Double eigenvalues in optimization problems. (Russian) **86b:49062**
 Laetsch, Theodore. Minimax principles for convex eigenvalue problems. **86c:49050**
 McKenna, P. J. (with Rao, Murali) Lower bounds for the first eigenvalue of the Laplacian, with Dirichlet boundary conditions and a theorem of Hayman. **86c:49051**
 Mydlarski, Andrzej. Bimodal optimal design of vibrating plates using theory and methods of nondifferentiable optimization. **86i:49044**
 Rao, Murali. See *McKenna, P. J.*, (86c:49051)
 Sel'ranian, A. P. See *Bratus', A. S.*, (86b:49062)
 Suslina, T. A. Asymptotic behavior of the spectrum of variational problems on solutions of a homogeneous elliptic equation in the presence of constraints on part of the boundary. (Russian) **86b:49063**

secondary classifications (49G05)

- Bandle, Catherine. Comparison theorems for second- and fourth-order elliptic equations. **86i:35008**
 Bendase, Martin P. (with Olhoff, Niels) A method of design against vibration resonance of beams and shafts. **86i:73035**
 Embergenov, A. See *Lyashenko, I. N. et al.*, (86d:85141)
 Gabriel, G. J. Comment on: "Variational methods for nonstandard eigenvalue problems in waveguide and resonator analysis" [IEEE Trans. Microwave Theory Tech. **30** (1982), no. 8, 1194-1204; MR **83k:78020**] by I. V. Lindell. **86a:78020a**
 Response to reply to comments on: "Variational methods for nonstandard eigenvalue problems in waveguide and resonator analysis". **86a:78020b**
 Levendorkif, S. Z. Asymptotic behavior of the spectrum of problems with constraints. (Russian) **86g:35152**
 (Lindell, Ismo V.) See *Gabriel, G. J.*, (86a:78020a and 86a:78020b)
 Lyashenko, I. N. (with Meredov, Kh. M.; Embergenov, A.) Investigation of the variational-difference method for determining the eigenvalues of the Laplace operator. II. (Russian) **86d:85141**
 Meredov, Kh. M. See *Lyashenko, I. N. et al.*, (86d:85141)
 Olhoff, Niels. See *Bendase, Martin P.*, (86i:73035)
 Pedersen, Pauli. Sensitivity analysis for nonselfadjoint problems. **86j:73050**

49G10 Rayleigh-Ritz methods

- Fichera, Gaetano. Eigenvalue computation and applications: a bibliography of the first three seminars. (Italian) [See **86i:00019**]
 Glushkov, V. N. (with Tsasne, A. Ya.) Unconditional minimization in eigenvalue problems with additional conditions. (Russian) **86f:49110**
 Tsasne, A. Ya. See *Glushkov, V. N.*, (86f:49110)

secondary classifications (49G10)

- Abramov, Yu. Sh. ★ Вариационные методы в теории операторных пучков. (Russian) [Variational methods in the theory of operator pencils] **86f:47007**
 Kluge, Reinhard. Zur "Koeffizienten"-bestimmung in linearen Operator- und Evolutionsgleichungen. [Determining the "coefficients" in linear operator and evolution equations] **86m:47091**
 Lin, Zong Chi. A problem of eigenvalues with double perturbation. (Chinese. English summary) **86b:73021**
 Perov, A. I. Variational methods in the theory of nonlinear oscillations. (Russian) **86k:58104**

- Tichatschke, R. Das Dirichlet-Problem, primale und duale Formulierung und numerische Lösung. [The Dirichlet problem, primal and dual formulation and numerical solution] [See **86g:90058**]

Velte, Waldemar. Bounds for critical values and eigenfrequencies of mechanical systems. **86m:73048**

Voss, Heinrich. An error bound for eigenvalue analysis by nodal condensation. **86m:85031**

49G15 Weinstein and Aronszajn methods, intermediate problems

- Bassotti Rizza, L. A generalization of intermediate operators. (Italian. English summary) **86j:49088**
 Beattie, Christopher A. (with Greenlee, W. M.) Convergence theorems for intermediate problems. **86i:49045**
 Del Grosso, Gabriella (with Marchetti, Federico) Asymptotic estimates for principal eigenvalues. (See **86g:92002**)
 Gallitelli, V. K. Shortening of the description of a dynamical system with given constraints. (Russian. English summary) **86k:49036**
 Greenlee, W. M. See *Beattie, Christopher A.*, (86i:49045)
 Maddocks, John H. Restricted quadratic forms and their application to bifurcation and stability in constrained variational principles. **86f:49111**
 Marchetti, Federico. See *Del Grosso, Gabriella*, (86g:92002)

49G20 Linear operators in Hilbert spaces

- Bassotti Rizza, L. Computing the eigenvalues of some boundary value problems involving linear differential operators. (Italian) [See **86i:00019**]

secondary classifications (49G20)

- Grubb, A. (with Nicholson, G. E.; Sharma, C. S.) A radical simplification of the minimax and the maximin theories for the eigenvalues of sums of selfadjoint operators. **86j:47024**
 Nicholson, G. E. See *Grubb, A. et al.*, (86j:47024)
 Sharma, C. S. See *Grubb, A. et al.*, (86j:47024)

49G99 None of the above, but in this section

- Ehrhard, Antoine. Inégalités isopérimétriques et intégrales de Dirichlet gaussiennes. [Isoperimetric inequalities and Gaussian Dirichlet integrals] **86b:49064**

secondary classifications (49G99)

- Kuttler, J. R. A nodal line theorem for the sloshing problem. **86h:76007**

49H05 Variational principles of physics [See also 70-XX, 81-XX.]

- Bampi, F. (with Morro, A.) On functionals made stationary by given functions. (Italian summary) **86d:49063**
 Basseling, J. F. Laws of physics and variational principles. (See **86j:85009**)
 Jiang, Qing. On variational principles in geometrically nonlinear theory of viscoelasticity. **86j:49089**
 Leipholz, H. H. E. On extended variational principles. (See **86j:85009**)
 Le Talliec, Patrick. Optimal control techniques for computing stationary flows of viscoelastic fluids with memory. (See **86f:00030**)
 Morro, A. See *Bampi, F.*, (86d:49063)
 Nutku, Y. Hamiltonian formulation of the KdV equation. **86a:49068**
 Tsypkin, A. G. The laws of thermodynamics and variational methods of construction of models of continua. (Russian) **86c:49052**

secondary classifications (49H05)

- Atkins, William K. A fundamental quadratic variational principle underlying general relativity. **86g:83005**
 Bahar, L. Y. (with Kwatny, H. G.) Mixed variational principles for some nonselfadjoint dynamical systems. **86f:70014**
 Bailey, Cecil D. Hamilton's law or Hamilton's principle: a response to Ulvi Yurtsever. **86i:70014**
 See also *Yurtsever, Ulvi*, (86i:70013)
 Betancourt, Octavio L. (with McFadden, G.) Nonparametric solutions to the variational principle of ideal magnetohydrodynamics. **86k:76009**
 Cannarossi, Mario. Stationary and extremum variational formulations for the elastostatics of cable networks. (Italian summary) **86m:73056**
 Čović, V. M. (with Lukačević, M. M.) On the second form of Hamilton's principle. **86c:70017**
 Glasnov, Yu. T. Existence of a classical variational principle for nonlinear coupled heat and mass transport. **86h:80006**
 Gryn', V. I. Different P_N -approximations of the method of spherical harmonics. (Russian) **86b:65019**
 Gubarev, V. F. Evolution of electromagnetic parameters and configuration of a toroidal plasma with controllable currents. (Russian) **86b:76053**
 Guo, You Zhong. Complementary variational principles in elastic theory. **86i:73018**
 Haftka, Raphael T. (with Kamat, Manohar P.) ★ Elements of structural optimization. **86j:73003**
 Jiang, Qing (with Li, Hao) New variational principles in linear and nonlinear theories of elasticity and viscoelasticity. **86j:73029**
 Kamat, Manohar P. See *Haftka, Raphael T.*, (86j:73003)
 Koslov, V. V. Calculus of variations in the large and classical mechanics. (Russian) **86m:58053**
 Kwatny, H. G. See *Bahar, L. Y.*, (86f:70014)
 Li, Hao. See *Jiang, Qing*, (86j:73029)
 Lukačević, M. M. See *Čović, V. M.*, (86c:70017)

- Marjanović-Gabela, Nada A tensor field of third rank. (Serbo-Croatian summary) 86a:70004
- May, Helge-Otmar Variational principles and differential inclusions for unilateral constraints in analytical mechanics. (Italian summary) 86f:70015
- McPadden, G. See Betancourt, Octavio L., 86k:70009
- Moreau, J. J. Variational properties of stationary inviscid incompressible flows with possible abrupt inhomogeneity or free surface. 86k:70011
- Nash, Patrick L. A Lagrangian theory of the classical spinning electron. 86c:78011
- Nazarov, V. U. Time-dependent variational principle and self-consistent field equations. 86j:81180
- Nowosad, Pedro See Young, L. C., 86f:81017
- Rosenbrock, H. H. A variational principle for quantum mechanics. 86j:81037
- Seregin, G. A. Well-posedness of variational problems of the mechanics of ideally elastoplastic media. (Russian) 86a:73017
- Sienituyts, Stanislaw Variational principles in extended irreversible thermodynamics. Application to heat and mass transfer. (See 86i:82040)
- Young, L. C. (with Nowosad, Pedro) Generalized curve approach to elementary particles. 86f:81017
- Yurtsever, Ulvi Comments on: "On a more precise statement of Hamilton's principle" [Found. Phys. 11 (1981), no. 3-4, 279-296; MR 83f:49089] by C. D. Bailey. 86i:70013
- Zubov, L. M. A variational principle of the nonlinear theory of elasticity. (Russian) 86e:73015

51-XX GEOMETRY (For algebraic geometry, see 14-XX.)

secondary classifications (51-XX)

- Wu, Wen Jun Some remarks on mechanical theorem-proving in elementary geometry. (Not in MR)

51-01 Elementary exposition; textbooks

- Baglivo, Jenny A. (with Graver, Jack E.) ★ Incidence and symmetry in design and architecture. 86i:51001
- Berger, Marcel ★ Géométrie. 5. (French) [Geometry. 5] 86b:51001
(with Pansu, P.; Berry, Jean-Pic; Saint Raymond, Xavier) ★ Problems in geometry. 86c:51001
★ Геометрия. Том 1. (Russian) [Geometry. Vol. 1] 86k:51001a
★ Геометрия. Том 2. (Russian) [Geometry. Vol. 2] 86k:51001b
- Bernhard, Arnold ★ Projektive Geometrie aus der Raumanschauung zeichnend entwickelt. (German) [Projective geometry developed graphically from concepts of space] 86m:51001
- Berry, Jean-Pic See Berger, Marcel et al., 86c:51001
- Bränsel, Dan See Miron, Radu, 86e:51001
- Chee, P. S. What is geometry? 86h:51001
- (Chmutov, S. V.) See Berger, Marcel, 86k:51001a
- Graver, Jack E. See Baglivo, Jenny A., 86i:51001
- Kadomtsev, S. B. ★ Геометрия Лобачевского и физика. (Russian) [Lobachevskii geometry, and physics] 86a:51001
- Krats, Johannes Neuere Entwicklungen im Rahmen der Didaktik der Geometrie. [Recent developments in the didactics of geometry] 86c:51002
- (Levy, Silvio) See Berger, Marcel et al., 86c:51001
- Miron, Radu (with Bränsel, Dan) ★ Fundamentele aritmeticii și geometriei. (Romanian) [The foundations of arithmetic and geometry] 86e:51001
- Pansu, P. See Berger, Marcel et al., 86c:51001
- (Pashitnov, A. V.) See Berger, Marcel, 86k:51001a
- (Sabitov, I. Kh.) See Berger, Marcel, 86k:51001a and 86k:51001b
- Saint Raymond, Xavier See Berger, Marcel et al., 86c:51001
- Schröder, Eberhard M. ★ Geometrie euklidischer Ebenen. (German) [Geometry of Euclidean planes] 86k:51002
- (Sudarev, Yu. N.) See Berger, Marcel, 86k:51001a and 86k:51001b
- (Trofimov, V. V.) See Berger, Marcel, 86k:51001b

secondary classifications (51-01)

- Beutelspacher, Albrecht ★ Einführung in die endliche Geometrie. II. (German) [Introduction to finite geometry. II] 86b:51015
- Klingenberg, Wilhelm ★ Lineare Algebra und Geometrie. (German) [Linear algebra and geometry] 86a:15001
★ Geometrie. (German) [Geometry] 86f:00038
- Kordos, Marek ★ Podstawy geometrii rzutowej i rzutowo-metrycznej. (Polish) [Foundations of projective and projective-metric geometry] 86k:51003
- Müller, Claus Symmetrie und Ornament. [Symmetry and ornament] 86k:00018
- Pogorelov, A. V. On teaching geometry in school. (Russian) (See 86g:00010)
- Vogler, Hans Elementargeometrische Betrachtungen über die Durchdringungskurve eines schiefen Kreiskegels und einer Kugel mit einer gemeinsamen Symmetrieebene. [Elementary-geometric observations on the intersection curve of a skew circular cone and a sphere with a joint symmetry plane] 86i:51021
- Vollrath, Hans-Joachim Different conceptions of geometry and their relations to mathematics teaching. (Danish. English summary) 86h:00018
- Walter, Rolf ★ Lineare Algebra und analytische Geometrie. (German) [Linear algebra and analytic geometry] 86h:15002

51-02 Advanced exposition (research surveys, monographs, etc.)

- Artin, Emil ★ Algèbre géométrique. (French) [Geometric algebra] 86b:51002
- Böhm, Johannes (with Börner, W.; Hertel, E.; Krötenheerdt, O.; Mögling, W.; Stammeler, Ludwig) ★ Geometrie. I. (German) [Geometry. I] 86j:51001

- Börner, W. See Böhm, Johannes et al., 86j:51001
- Hertel, E. See Böhm, Johannes et al., 86j:51001
- (Julla, G.) See Artin, Emil, 86b:51002
- Krötenheerdt, O. See Böhm, Johannes et al., 86j:51001
- (Laard, M.) See Artin, Emil, 86b:51002
- Mögling, W. See Böhm, Johannes et al., 86j:51001
- Stammeler, Ludwig See Böhm, Johannes et al., 86j:51001
- (Wussing, H.) See Böhm, Johannes et al., 86j:51001

secondary classifications (51-02)

- Lord, E. A. (with Wilson, C. B.) ★ The mathematical description of shape and form. 86m:58030
- Schreiber, P. ★ Grundlagen der konstruktiven Geometrie. (German) [Foundations of constructive geometry] 86c:51028
- Shult, Ernest Characterizations of the Lie incidence geometries. 86a:51013
- Wilson, C. B. See Lord, E. A., 86m:58030

51-03 Historical (must also be assigned at least one classification number from Section 01)

secondary classifications (51-03)

- Adams, George ★ Geometrische und graphische Versuche. (German) [Geometric and graphical essays] 86m:01072
- Albás González, Víctor Samuel (with Alvarez, René) The works of Gauss on the theory of parallels. (Spanish) (See 86i:01033)
- Alvarez, René See Albás González, Víctor Samuel, (86i:01033)
- (Apollonius of Perga) See Hogendijk, Jan P., 86i:01007
- Belyi, Yu. A. The geometry of a triangle in unpublished materials of Leonhard Euler. (Russian) 86i:01022
- (Black, Max) See Frege, Gottlob, 86k:01050
- Bulgakov, P. G. A geometrical problem from a 10th century problem book. (Russian) 86c:01009
- (Damerow, Peter) See Adams, George, 86m:01072
- (Dudman, V. H.) See Frege, Gottlob, 86k:01050
- Farion, Z. D. See Rogachenko, V. F. (Not in MR)
- (Fedorov, E. S.) See Senechal, Marjorie, 86g:01034
- Frege, Gottlob ★ Collected papers on mathematics, logic, and philosophy. 86k:01050
- Gallulin, R. V. See Senechal, Marjorie, 86g:01034
- (Geach, Peter) See Frege, Gottlob, 86k:01050
- Gonina, E. E. (with Malykh, A. E.) The development of a logical-combinatorial formalization. (Russian) 86c:01038
- (Ibn al-Haytham, Hasan) See Hogendijk, Jan P., 86i:01007
- Hers-Fischler, Roger Le Corbusier's "regulating lines" for the villa at Garches (1927) and other early works. 86c:01041
- Hogendijk, Jan P. Greek and Arabic constructions of the regular heptagon. 86a:01008
★ Ibn al-Haytham's *Completion of the conics*. 86i:01007
- (Kaal, Hans) See Frege, Gottlob, 86k:01050
- Kárteszi, Ferenc The precedent of the *Appendix* and its scientific results. (Hungarian) 86g:01027
- (Kluge, E.-H. W.) See Frege, Gottlob, 86k:01050
- Lam, Lay Yong (with Shen, Kang Sheng) Right-angled triangles in ancient China. 86h:01014
- (Lefèvre, Wolfgang) See Adams, George, 86m:01072
- Malykh, A. E. See Gonina, E. E., 86c:01038
- (McGuinness, Brian) See Frege, Gottlob, 86k:01050
- Mills, Stella Note on the Braikenridge-Maclaurin theorem. 86h:01034
- Pérez, Jesús Hernando The method of Archimedes. (Spanish) 86c:01008
- Pickert, Günter Vom Gnomon zu den Sätzen von Pascal und Brianchon. [From the gnomon to the theorems of Pascal and Brianchon] 86m:01002
- Rapcsák, András The influence of the *Appendix* for modern mathematics. (Hungarian) 86g:01028
- Rogachenko, V. F. (with Farion, Z. D.) ★ Нариси розвитку геометрії у XIX-XX століттях. (Ukrainian) [Outline of the development of geometry in the XIX-XX centuries] (Not in MR)
- Schois, Erhard Projektive und vektorielle Methoden in Culmann's *Graphischer Statik*. [Projective and vectorial methods in Culmann's *Graphic statics*] 86f:01022
- Senechal, Marjorie (with Gallulin, R. V.) An introduction to the theory of figures: the geometry of E. S. Fedorov. 86g:01034
- Shen, Kang Sheng See Lam, Lay Yong, 86h:01014
- (Stoother, R. H.) See Frege, Gottlob, 86k:01050
- Tarrés i Preixenet, Juan History of dimension theory. (Catalan) 86m:01078
- Toth, Imre Three errors in the *Grundlagen* of 1884: Frege and non-Euclidean geometry. 86f:03002
- Trifunović, Dragan The appearance of graphostatics. (Serbo-Croatian. German summary) 86b:01023
- Biography:
Fedorov, E. S. See Senechal, Marjorie, 86g:01034

51-04 Explicit machine computation and programs (not the theory of computation or programming)

secondary classifications (51-04)

- Dempwolff, U. (with Reifart, Arthur) The classification of the translation planes of order 16. I. 86d:51006
- Edelsbrunner, H. Key-problems and key-methods in computational geometry. 86a:68083
- González-Sprinberg, Gérard (with Ruggiero, Valeria) Petites déformations de droites dans le plan projectif réel. (Italian summary) [Small deformations of lines in the real projective plane] 86a:51048

Hoschek, Josef Anwendungen des Dualitätsprinzips im Computer-aided geometric Design. [Applications of the duality principle in computer-aided geometric design] 86g:51045

Janko, Zvonimir Projective planes of order 12 with a collineation group of order 27. (Serbo-Croatian summary) 86m:51013

Matulić-Bedenić, Ida The classification of projective planes of order 11 which possess an involution. (Serbo-Croatian summary) 86h:51018

Mortenson, Michael E. ★ Geometric modeling. 86m:85021

Reifart, Arthur The classification of the translation planes of order 16. II. 86j:51017

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Brickell, Ernest F. (with Ray-Chaudhuri, Dijen K.) Characterization of incidence structures of intervals of affine geometries. 86j:51002

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Melone, N. (with Olanda, D.) A characteristic property of the Grassmann manifold representing the lines of a projective space. 86j:51003

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Ray-Chaudhuri, Dijen K. See Brickell, Ernest F., 86j:51002

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Šušalec, Andrej Some remarks on projection methods. 86k:51004

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secondary classifications (51A05)

Barricelli, Nils Aall B-mathematical approach to the problems of projective geometry. 86g:03021

Camillo, V. P. Inducing lattice maps by semilinear isomorphisms. 86e:16025

Hartl, Johann Zerfallende Quadrikenanschnitte und stereographische Projektion. (English summary) [Decomposing intersections of quadrics and stereographic projection] 86m:51036

Correction to my paper: "Decomposing intersections of quadrics and stereographic projection" [J. Geom. 22 (1984), no. 2, 149-152] (German). 86m:51036b

Karsel, H. Affine incidence groups. 86b:51030

Mesulam, Roy On multicoloured lines in a linear space. 86m:05027

Milojević, M. A projective model of two-dimensional geometry which is dual to pseudo-Euclidean geometry. (Serbo-Croatian. English summary) 86i:51022

Nikitin, A. A. Freely generated projective planes. (Russian) 86f:51003

51A10 Homomorphism, automorphism and dualities

Delandtsheer, Anne Finite antiflag-transitive linear spaces. 86h:51002a

Erratum: "Finite antiflag-transitive linear spaces". 86h:51002b

Heesch, H. Die 5 Typen der projektiven Abbildungen der Geraden auf sich und die 10 Typen der projektiven Abbildungen der Ebene auf sich. [The five types of projective mappings of the line onto itself and the ten types of projective mappings of the plane onto itself] 86m:51003

James, Donald G. Collineations of polar spaces. 86g:51001

secondary classifications (51A10)

Biggs, N. L. (with Shawe-Taylor, John) Rotations and graphs with large girth. 86g:51031

D'Angelo, M. On homologies and elations of the same order. 86c:51005

Fink, J. B. Flag-transitive projective planes. 86e:51011

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Hering, Christoph On perspectivities of odd order in simple collineation groups of projective planes. 86b:51006

Jungnickel, Dieter (with Vedder, Klaus) Generalized homologies. 86c:51013

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Neftci'd, E. G. Geometries defined by a polarity in a projective space over an algebra. (Russian) 86e:53010

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Glynn, David G. An introduction to half-planes. 86i:51002

Havel, Václav (with Klouda, Josef) To the theorem of A. P. Sprague on spatial webs. 86g:51002

Klouda, Josef See Havel, Václav, 86g:51002

Micelli, Giuseppe Immersions of André structures in affine spaces. (Italian. English summary) 86b:51003

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Balconi, Giorgio Multipartite graphs and incidence structures with parallelism. (Italian) 86e:05072

Jungnickel, Dieter Lateinische Quadrate, ihre Geometrien und ihre Gruppen. [Latin squares, their geometries and their groups] 86g:05016

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Lewandowski, Andrzej (with Makowiecka, Hanna) On some incidence structures related to the configuration (H-T). 86g:51003

Makowiecka, Hanna See Lewandowski, Andrzej, 86g:51003

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Ušan, Janes A construction of special k -seminets. (Serbo-Croatian summary) 86k:51006

van Yseren, J. Ceva going retrograde. 86e:51003

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Bohne, Erhart (with Möller, Reinhard) Über die Anzahl projektiver Pappos-Konfigurationen in endlichen Desargueschen affinen Inzidenzebenen. [On the number of projective Pappos configurations in finite Desarguesian affine incidence planes] 86e:51012

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Bommireddy, M. (with Nagamuni Reddy, L.) Comparison and inversion of planar ternary rings with zero. 86b:51004

(with Nagamuni Reddy, L.; Reddy, Y. B.) Remarks on planar ternary rings coordinatizing a projective plane. 86g:51005

(with Nagamuni Reddy, L.) Linearity in a planar ternary ring with zero of a projective plane. 86j:51004

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Jagannathan, T. V. S. The ternary rings of Desarguesian and Pappian planes—a simple proof using perspectivities. 86g:51006

Klouda, Josef On k -nets of order $(k-1)^2$ admitting improper collineations. 86c:51004

Nagamuni Reddy, L. See Bommireddy, M. et al., 86g:51005; Bommireddy, M., 86b:51004 and 86j:51004

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Schleicher, Raymond Die Eindeutigkeit der Koordinatisierung von affinen Liniengeometrien durch freie Moduln. (English summary) [The uniqueness of the coordinatization of affine line geometries by free modules] 86j:51005

Struve, Rolf Eine Algebraisierung euklidischer Ebenen. [An algebraization of Euclidean planes] 86a:51002

secondary classifications (51A25)

Bektenov, A. S. A configuration in algebraic three-dimensional nets. (Russian) (Not in MR)

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Hartmann, Erich Ovoides und Möbius-Ebenen über konvexen Funktionen. [Ovoids and Möbius planes over convex functions] 86a:51010

Havel, Václav (with Klouda, Josef) To the theorem of A. P. Sprague on spatial webs. 86g:51002

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Lewandowski, Andrzej (with Makowiecka, Hanna) On some incidence structures related to the configuration (H-T). 86g:51003

Lyakh, I. V. Parallel translations in algebraic nets. (Russian) (Not in MR)

Makowiecka, Hanna See Lewandowski, Andrzej, 86g:51003

Neumann, Maria (with Stanciu, L.) Über einige Rechenregeln und Äquivalenzrelationen in einem Alternativkörper. (Romanian summary) [On some rules of arithmetic and equivalence relations in an alternative field] 86j:12013

Stanciu, L. See Neumann, Maria, 86j:12013

Tallini, Giuseppe Geometric hyperquasigroups and line spaces. (Russian and Czech summaries) 86d:20081

51A30 Desarguesian and Pappian geometries

- Bresleau, Al. (with Rădulescu, Dan) About full or injective lineations. **86f:51004**
 Grundhöfer, Theo Projective planes with collineation groups sharply transitive on quadrangles. **86a:51003**
 Havlicek, Hans Die automorphen Kollineationen nicht entarteter Normkurven. [Automorphic collineations of nondegenerate norm curves] **86a:51004**
 Kaya, Rüstem On the connection between ternary rings and the restricted dual Pappus theorems. II. (Turkish summary) **86f:51005**
 Rădulescu, Dan See Bresleau, Al., **86f:51004**

secondary classifications (51A30)

- Cowalk, R. C. (with Singhi, N. M.) On the embedding of an affine plane in a Desarguesian plane. **86h:51008**
 Fink, J. B. Flag-transitive projective planes. **86e:51011**
 Jagannathan, T. V. S. The ternary rings of Desarguesian and Pappian planes—a simple proof using perspectivities. **86g:51006**
 Samaga, Hans-Joachim On a theorem by F. Radó characterizing Lorentz transformations. **86h:51011**
 Siemon, Helmut The automorphism groups of the congruence group and of some of its subgroups in finite Euclidean planes. **86a:51019**
 Singhi, N. M. See Cowalk, R. C., **86h:51008**
 Struve, Horst Eine Spiegelungsgeometrische Kennzeichnung der Desargues- und der Pappus-Konfiguration. [A reflection-geometrical characterization of the Desargues and Pappus configurations] **86a:51031**

51A35 Non-Desarguesian affine and projective planes

- Caggegi, Andrea Generalized André planes with no orbit of finite length on the line at infinity. (Italian. English summary) **86i:51003**
 D'Angelo, M. On homologies and elations of the same order. **86e:51005**
 Foley, David M. A note on Seall's projective substitution. **86b:51005**
 Hering, Christoph On perspectivities of odd order in simple collineation groups of projective planes. **86b:51006**
 Iden, O. On the embeddings of F_4 in a free plane. **86h:51005**
 Scherk, Peter On planes of the Lenz-Barlotti class 16. II. A configuration and its automorphisms. **86i:51004**

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- Fernandes, Olga On a Baer involution which maps an oval into itself. **86h:51020**
 Grundhöfer, Theo Finite subplanes and affine projectivities of translation planes. **86a:51005**
 Jha, Vikram On groups of Baer collineations acting on Cartesian and translation planes. **86b:20006**
 Mandan, Sahib Ram Non-Pappian 93. **86g:51004**
 Wefelscheid, Heinrich Zur Nichtexistenz scharf 2-transitiver Permutationsmengen in scharf 3-fach transitiven Gruppen. (Italian summary) [On the nonexistence of sharply 2-transitive permutation sets in sharply 3-fold transitive groups] **86e:20003**

51A40 Translation planes and spreads

- Foulser, D. A. (with Mason, Geoffrey; Walker, Michael) On translation planes as irreducible $SL(3, q)$ -modules, q odd. **86e:51006**
 Grundhöfer, Theo Finite subplanes and affine projectivities of translation planes. **86a:51005**
 Hiramine, Yutaka A generalization of Hall quasifields. **86g:51007**
 On weakly transitive translation planes. **86h:51006**
 Jha, Vikram On translation planes which admit solvable autotopism groups having a large slope orbit. **86b:51007**
 (with Johnson, Norman Lloyd) A note on finite semifield planes that admit affine homologies. **86m:51004**
 Johnson, Norman Lloyd On Desarguesian extensions of elation nets. **86f:51006**
 See also Jha, Vikram, **86m:51004**
 Lunardon, Guglielmo Planar fibrations and algebraic subvarieties of the Grassmann variety. (Italian. English summary) **86b:51008**
 Mason, Geoffrey Some translation planes of order 7^2 which admit $SL_2(9)$. **86g:51008**
 (with Ostrom, T. G.) Some translation planes of order p^2 and of extra-special type. **86h:51007**
 See also Foulser, D. A. et al., **86e:51006**
 Ostrom, T. G. Quaternion groups and translation planes related to the solvable nearfield planes. **86e:51007**
 See also Mason, Geoffrey, **86h:51007**
 Oyama, Tutosi On quasifields. **86g:51009**
 Walker, Michael See Foulser, D. A. et al., **86e:51006**

secondary classifications (51A40)

- Beutelspacher, Albrecht (with Eugeni, Franco) On the type of partial t -spreads in finite projective spaces. **86m:51015**
 Büttner, Wolfram Eine Charakterisierung der Lüneburgerbenen. [A characterization of the Lüneburg planes] **86f:51014**
 Caggegi, Andrea The collineations of a class of translation planes. (Italian. English summary) **86d:51001**
 Dempwolff, U. (with Reifart, Arthur) The classification of the translation planes of order 16. I. **86d:51006**
 Ebert, Gary L. The completion problem for partial packings. **86k:51009**
 Eugeni, Franco See Beutelspacher, Albrecht, **86m:51015**
 Foulser, D. A. (with Johnson, Norman Lloyd) The translation planes of order q^2 that admit $SL(2, q)$ as a collineation group. II. Odd order. **86a:51017b**
 (with Johnson, Norman Lloyd) The translation planes of order q^2 that admit $SL(2, q)$ as a collineation group. I. Even order. **86a:51017a**

- Hartmann, Erich Über zwei Klassen von Tits-Fastkörpern. [On two classes of Tits nearfields] **86c:12006**
 Jha, Vikram (with Johnson, Norman Lloyd) Some unusual translation planes of order 64. **86f:51016**
 On groups of Baer collineations acting on Cartesian and translation planes. **86b:20006**
 (with Johnson, Norman Lloyd; Wilke, F. W.) On translation planes of order q^2 that admit a group of order $q^2(q-1)$; Bartolone's theorem. **86h:51015**
 Johnson, Norman Lloyd Translation planes of order q^2 that admit $q+1$ elations. **86h:51016**
 See also Foulser, D. A., **86a:51017a**; **86a:51017b**; Jha, Vikram, **86f:51016** and **86h:51015**
 Korchmáros, G. A translation plane of order 49 with nonsolvable collineation group. **86g:51019**
 Lunardon, Guglielmo Projective indicator sets and planar spreads of a finite projective space. (Italian. English summary) **86k:51010**
 Narayana Rao, M. L. (with Satyanarayana, K.; Vithal Rao, G.) A class of translation planes of square order. **86h:51019**
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 Wilde, Artur Spiegelungsgeometrische Darstellung affiner Ebenen auf der Grundlage eines abgeschwächten Schrägspiegelungsbegriffs. [Mirror-geometric representation of affine planes based on a weakened concept of skew reflection] **86m:51021**
 Wilke, F. W. See Jha, Vikram et al., **86h:51015**

51A45 Incidence structures imbeddable into projective geometries

- Batten, Lynn Margaret Embedding the complement of a minimal blocking set in a projective plane. **86a:51006**
 Bichara, Alessandro (with Somma, Clelia) A characterization of Schubert manifold associated with a three-dimensional projective space. **86a:51007**
 Cowalk, R. C. (with Singhi, N. M.) On the embedding of an affine plane in a Desarguesian plane. **86h:51008**
 Debroey, I. See Thas, J. A. et al., **86g:51010**
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 Frank, Rolfdieter A proof of the bundle theorem for certain semimodular locally projective lattices of rank 4. **86j:51006**
 Herser, Armin $\text{Hom}(U, W)$ und affine Grassmann-geometrie. (English summary) [$\text{Hom}(U, W)$ and affine Grassmann geometry] **86i:51005**
 Jousen, Jakob Eine Bemerkung zu einem Satz von Sylvester. [A comment on a theorem of Sylvester] **86a:51008**
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 Thas, J. A. (with Debroey, I.; De Clerck, F.) The embedding of $(0, \alpha)$ -geometries in $PG(n, q)$. II. **86g:51010**

secondary classifications (51A45)

- Batten, Lynn Margaret (with Sane, Sharad S.) A characterization of the complement of the union of two disjoint Baer subplanes. **86j:51015**
 Delandtsheer, Anne Finite semi-affine planes and generalized projective spaces. **86c:51003**
 Faina, Giorgio Example of a nonprojective abstract oval with Pascalian tangents whose automorphism group is solvable and doubly transitive. (Italian) **86e:51022**
 Hotje, Herbert Some aspects of the embedding of chain geometries. **86m:51005**
 Kaya, Rüstem (with Özcan, Enver) On the construction of Bolyai-Lobachevsky planes from projective planes. **86a:51025**
 Özcan, Enver See Kaya, Rüstem, **86a:51025**
 Pickert, Günter Teilmengengraphen und projektive Räume. [Subset graphs and projective spaces] **86f:51019**
 Sane, Sharad S. See Batten, Lynn Margaret, **86j:51015**

51A99 None of the above, but in this section

secondary classifications (51A99)

- Aschbacher, M. Finite geometries of type C_3 with flag-transitive groups. **86b:51023**
 Desza, Michel (with Frankl, P.) Injection geometries. **86a:05033**
 Frankl, P. See Desza, Michel, **86a:05033**
 Hotje, Herbert On geometric valuations. **86e:51008**

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51B05 General theory

- Cameron, Peter J. Infinite versions of some topics in finite geometry. **86e:51006**
 Gilbert, K. Y. Geometries of n -chains. (Russian) **86b:51009**
 Havlicek, Hans Eine affine Beschreibung von Ketten. [An affine description of chains] **86i:51006**
 Herser, Armin On a projective representation of chain geometries. **86i:51007**
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 Iden, O. A unification attempt for free geometries. **86a:51009**
 Kantor, W. M. A brief graph-theoretic introduction to buildings. **86g:51011**
 Some exceptional 2-adic buildings. **86j:51007**
 Pasini, Antonio On the linearization of pure geometries in certain diagrams (cyclic diagrams and trees). **86f:51007**
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Herzer, Armin $\text{Hom}(U, W)$ und affine Grassmann-geometrie. (English summary) [$\text{Hom}(U, W)$ and affine Grassmann geometry] 86i:51005

51B10 Möbius geometries

Glynn, David G. The Hering classification for inversive planes of even order. 86g:51012
Hartmann, Erich Ovoids und Möbius-Ebenen über konvexen Funktionen. [Ovoids and Möbius planes over convex functions] 86a:51010

Lewandowski, Andrzej On extensibility of affine plane to the Möbius plane. 86g:51013
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Beardon, A. F. (with Wilker, J. B.) The norm of a Möbius transformation. 86b:51033
Bruen, Aiden A. (with Rothschild, Bruce L.) Lower bounds on blocking sets. 86g:51022
Capone, Vincenzo (with Meglio, Michele) On a class of finite inversive spaces of odd order and associated affine-metric spaces. (Italian. English summary) 86e:51019
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 Ferri, Osvaldo (with Tallini, Giuseppe) A characterization of the family of secant lines of an elliptic quadric in $PG(3, q)$, q odd. **86g:51023**
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 de Paris, Gennaro (with Pantaleo, Tito) On a class of metric-projective spaces of dimension four over a Galois field of odd order. (Italian. English summary) **86j:51019**
 (with Pantaleo, Tito) The structure of groups of motions of a class of metric-projective spaces of dimension four. (Italian. English summary) **86j:51020**
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 (with Rella, Luigia) $(k, n; f)$ -arcs of type $(1, n)$ in a finite projective plane. (Italian. English summary) **86k:51011b**
 (with Rella, Luigia) Graphic arcs of order 5, 6 embeddable in algebraic plane curves of the same order. (Italian summary) **86g:51025**
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 A characterization of the set of lines either belonging to or tangent to a nonsingular Hermitian variety in $PG(3, q)$, q a square. **86b:51022**
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 See also Ferri, Osvaldo, **86g:51023** and Massocca, Francesco, **86j:51018**
 Tallini Scafi, M. d -dimensional two-character k -sets in an affine space $AG(r, q)$. **86c:51018**

- Thas, J. A. 3-regularity in generalized quadrangles of order (s, s^2) . **86g:51027**
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 Venesia, Antonietta On a characterization of the set of lines which either belong to or are tangent to a nonsingular quadric in $PG(3, q)$, q odd. **86a:51024**
 Wild, Peter *See* Casse, L. R. A., **86a:51020**

secondary classifications (51E20)

- Basile, Alessandro (with Brutti, P.) Projective equivalence of regular fibrations of $PG(2t+1, q)$. (Italian) **86j:51014**
 Batten, Lynn Margaret Embedding the complement of a minimal blocking set in a projective plane. **86a:51006**
 Berardi, L. (with Beutelspacher, Albrecht; Eugeni, Franco) On $(s, t; h)$ -blocking sets in finite projective and affine spaces. **86c:05042**
 Beutelspacher, Albrecht *See* Berardi, L. et al., **86c:05042**
 Brouwer, A. E. Some new two-weight codes and strongly regular graphs. **86d:05023**
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 Debrooy, I. *See* Thas, J. A. et al., **86g:51010**
 De Clerck, F. *See* Thas, J. A. et al., **86g:51010**
 Delandtsheer, Anne A characterization of certain 3-dimensional affine-projective spaces. **86d:51005**
 Eugeni, Franco *See* Berardi, L. et al., **86c:05042**
 Numata, Minoru On the graphical characterization of the projective space over a finite field. **86m:05071**
 Sprague, Alan P. Rank 3 incidence structures admitting dual-linear, linear diagram. **86g:51016**
 Thas, J. A. (with Debrooy, I.; De Clerck, F.) The embedding of $(0, \alpha)$ -geometries in $PG(n, q)$. II. **86g:51010**
 Wilbrink, H. A. A note on planar difference sets. **86c:05015**

51E25 Finite nonlinear geometries

- Aschbacher, M. Finite geometries of type C_3 with flag-transitive groups. **86b:51023**
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 Capone, Vincenzo (with Meglio, Michele) On a class of finite inverse spaces of odd order and associated affine-metric spaces. (Italian. English summary) **86e:51019**
 Deso, Michel (with Frankl, P.; Hirschfeld, J. W. P.) Sections of varieties over finite fields as large intersection families. **86i:51012**
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 Hirschfeld, J. W. P. *See* Deso, Michel et al., **86i:51012**
 Kaya, Rüstem (with Özcan, Enver) On the construction of Bolyai-Lobachevsky planes from projective planes. **86a:51025**
 Köhler, Peter (with Meixner, Thomas; Wester, Michael) Exceptional chamber systems for the alternating group A_7 . **86g:51028**
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 Meixner, Thomas *See* Köhler, Peter et al., **86g:51028**
 Mielants, W. *See* Willems, M. L. H., **86a:51026a**
 Neumaier, A. Rectagons, diagrams, and Suzuki's sporadic simple group. **86b:51024**
 Ott, Udo On finite geometries of type B_3 . **86g:51029a**
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 Rees, Sarah C_3 geometries arising from the Klein quadric. **86g:51029b**
 Wester, Michael *See* Köhler, Peter et al., **86g:51028**
 Wilbrink, H. A. (with Brouwer, A. E.) A characterization of two classes of semipartial geometries by their parameters. **86e:51020**
 Willems, M. L. H. (with Mielants, W.) Dembowski semi-2-spaces. **86a:51026a**
 Dembowski semi-1-spaces. **86a:51026b**

secondary classifications (51E25)

- Casse, L. R. A. (with Thas, J. A.; Wild, Peter) (q^n+1) -sets of $PG(3n-1, q)$, generalized quadrangles and Laguerre planes. **86k:51012**
 Faina, Giorgio (with Korchmáros, G.) The subgroup generated by regular involutions of a doubly transitive B -oval. (Italian. English summary) **86m:20004**
 Glynn, David G. The Hering classification for inverse planes of even order. **86g:51012**
 Kantor, W. M. A brief graph-theoretic introduction to buildings. **86g:51011**
 Korchmáros, G. *See* Faina, Giorgio, **86m:20004**
 Lewandowski, Andrzej (with Makowiecka, Hanna) On operations on incidence structures. **86g:51014**
 Makowiecka, Hanna *See* Lewandowski, Andrzej, **86g:51014**
 Sprague, Alan P. A characterization of special Laguerre planes and extended dual affine planes. **86b:51009**
 Thas, J. A. *See* Casse, L. R. A. et al., **86k:51012**
 Wild, Peter *See* Casse, L. R. A. et al., **86k:51012**

51E30 Other finite incidence structures [See also 05B30.]

- Beutelspacher, Albrecht (with Kersten, Annette) Finite semiaffine linear spaces. **86m:51017**
 Casse, L. R. A. (with Thas, J. A.; Wild, Peter) (q^n+1) -sets of $PG(3n-1, q)$, generalized quadrangles and Laguerre planes. **86k:51012**
 Cohen, Arjeh M. (with Tits, J.) On generalized hexagons and a near octagon whose lines have three points. **86j:51021**
 Delandtsheer, Anne Transitivity on ordered pairs of lines in finite linear spaces. **86e:51021**
 Metrical regularity in the incidence graph of a finite linear space. **86d:51009**
 Faina, Giorgio Example of a nonprojective abstract oval with Pascalian tangents whose automorphism group is solvable and doubly transitive. (Italian) **86e:51022**
 The B -ovals of order $q \leq 8$. **86a:51027**
 Kersten, Annette *See* Beutelspacher, Albrecht, **86m:51017**

- Kimura, Hiroshi (with Ohmori, Hiroyuki) A characterization of some partial geometric spaces. **86m:51018**

- Neumaier, A. Some sporadic geometries related to $PG(3, 2)$. **86a:51028**
 Ohmori, Hiroyuki *See* Kimura, Hiroshi, **86m:51018**
 Payne, S. E. (with Thas, J. A.) ★ Finite generalized quadrangles. **86a:51029**
 Roos, C. (with van Zanten, A. J.) On the existence of certain generalized Moore geometries. I. **86h:51022a**
 (with van Zanten, A. J.) On the existence of certain generalized Moore geometries. II. **86h:51022b**
 Salsberg, Betty An introduction to Cayley algebra and Ree group geometries. **86b:51025**
 Thas, J. A. *See* Payne, S. E., **86a:51029** and Casse, L. R. A. et al., **86k:51012**
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 Van Maldeghem, H. σ -homotopy groups of Coxeter complexes. **86a:51030**
 Wild, Peter Divisible semiplanes and conics of Desarguesian biaffine planes. **86m:51019**
See also Casse, L. R. A. et al., **86k:51012**
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secondary classifications (51E30)

- Aschbacher, M. Finite geometries of type C_3 with flag-transitive groups. **86b:51023**
 Danzer, L. Regular incidence-complexes and dimensionally unbounded sequences of such. I. **86k:52006**
 Delandtsheer, Anne Finite geometric lattices with highly transitive automorphism groups. **86b:51013**
 Erratum: "Finite linear spaces with a regularity condition on the transversals of two secant lines" [European J. Combin. **3** (1982), no. 2, 119-124; MR 83m:05036]. **86d:05025**
 Finite semi-affine planes and generalized projective spaces. **86c:51003**
 Finite anti-flag-transitive linear spaces. **86h:51002a**
 Erratum: "Finite anti-flag-transitive linear spaces". **86h:51002b**
 De Soete, M. (with Thas, J. A.) A characterization theorem for the generalized quadrangle $T_2^*(O)$ of order $(s, s+2)$. **86e:51013**
 Glynn, David G. An introduction to half-planes. **86i:51002**
 Heden, Olof On partitions of finite vector spaces of small dimensions. **86e:05022**
 Kitasume, Masaaki A 2-local geometry for the Fischer group F_{24} . **86e:20016**
 Köhler, Peter (with Meixner, Thomas; Wester, Michael) Triangle groups. **86b:20047**
 Meixner, Thomas *See* Köhler, Peter et al., **86b:20047**
 Samaga, Hans-Joachim Über Abstand 1 erhaltende Abbildungen in Minkowski-Ebenen. (English summary) [On mappings in Minkowski planes preserving unit distance] **86a:51032**
 Sprague, Alan P. Rank 3 incidence structures admitting dual-linear, linear diagram. **86g:51016**
 Stanton, Dennis Orthogonal polynomials and Chevalley groups. **86d:22008**
 Tallini, Giuseppe Geometric hyperquasigroups and line spaces. (Russian and Czech summaries) **86d:20081**
 Thas, J. A. 3-regularity in generalized quadrangles of order (s, s^2) . **86g:51027**
See also De Soete, M., **86e:51013**
 Ušan, Janes On (k, n, q) -nets. (Serbo-Croatian summary) **86g:20089**
 Wester, Michael *See* Köhler, Peter et al., **86b:20047**

51E99 None of the above, but in this section

secondary classifications (51E99)

- Hall, J. I. Symplectic geometry and mapping class groups. **86h:57011**
 Heinebeck, Günter Bemerkung zu einem Satz von Glauberman. [Remark on a theorem of Glauberman] **86m:20005**
 Moran, Gadi Chords in a circle and linear algebra over $GF(2)$. **86e:20003**
 Mullen, Gary L. (with Niederreiter, Harald) The structure of a group of permutation polynomials. **86f:11095**
 Niederreiter, Harald *See* Mullen, Gary L., **86f:11095**

51Fxx Metric geometry

51F05 Absolute planes

- Doraczyńska, Elżbieta Isometrically perfectly homogeneous figures on an absolute plane. **86h:51023**
 Maraschini, W. Isometries in taxicab geometry. (Italian) **86g:51030**
 Popescu-Zorica, Alexandru Concerning the ordering of the lengths of the important lines of a triangle. (Romanian) **86d:51010**

secondary classifications (51F05)

- Stanik, Rotraut Eine Kennzeichnung der nicht Fanoischen Rechteckebenen durch Inzidenz, Parallelität und Kongruenz. (English summary) [A characterization of non-Fano rectangular planes by incidence, parallelism and congruence] **86i:51009**

51F10 Absolute spaces

- Frank, Rolfdieter Gruppentheoretische Kennzeichnung der Geometrien metrischer Vektorräume. [Group-theoretic characterization of the geometries of metric vector spaces] **86b:51026**
 Janković, Vladimir Orientation of absolute space S^n . **86f:51020**

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- Schröder, Eberhard M. On foundations of metric geometries. **86g:51033**
 Smith, James T. Group theoretic characterization of metric geometries of arbitrary dimension. **86g:51035**

51F15 Reflection groups, reflection geometries [See also 20H10, 20H15.]

Präsmowski, Krzysztof On the isosceles trapezium configuration in an abstract way. (Russian summary) **86m:51020**

Struve, Horst Eine Spiegelungsgeometrische Kennzeichnung der Desargues- und der Pappus-Konfiguration. [A reflection-geometrical characterization of the Desargues and Pappus configurations] **86a:51031**

Wilde, Artur Spiegelungsgeometrische Darstellung affiner Ebenen auf der Grundlage eines abgeschwächten Schrägspiegelungsbegriffs. [Mirror-geometric representation of affine planes based on a weakened concept of skew reflection] **86m:51021**

secondary classifications (51F15)

Ahlfors, Lars V. Möbius transformations and Clifford numbers. **86g:20065**

Coxeter, H. S. M. (with Weiss, Asia Ivić) Twisted honeycombs $\{3, 5, 3\}_t$ and their groups. **86i:52004**

Davis, Michael Walter Groups generated by reflections and aspherical manifolds not covered by Euclidean space. **86d:57025**

Doracayńska, Elżbieta Isometrically perfectly homogeneous figures on an absolute plane. **86h:51023**

Eilers, Erich W. (with Hähl, Hermann) A homogeneous description of inhomogeneous Minkowski groups. **86j:51022**

(Faddeev, D. K.) See Gallull, R. V., **86h:20071**

Frank, Rolfdieter Gruppentheoretische Kennzeichnung der Geometrien metrischer Vektorräume. [Group-theoretic characterization of the geometries of metric vector spaces] **86b:51026**

Gallull, R. V. ★ Кристаллографическая геометрия. (Russian) [Crystallographic geometry] **86h:20071**

Hähl, Hermann See Eilers, Erich W., **86j:51022**

Hughes, Mervyn On decompositions in complex imprimitive reflection groups. **86m:20056**

Hurley, A. C. Some helical structures generated by reflexions. **86m:51027**

Ignatenko, V. F. Some problems in the geometric theory of invariants of groups generated by orthogonal and oblique reflections. (Russian) **86i:14003**

Knight, Gordon The geometry of Maori art—rafter patterns. **86c:20005**

Präsmowski, Krzysztof Classical geometrical groups acting on geometrical objects. **86g:51038**

Seidel, J. J. Polytopes and non-Euclidean geometry. **86a:51044**

Struve, Horst (with Struve, Rolf) Ein Spiegelungsgeometrischer Aufbau der cominkowskischen Geometrie. [A reflection-geometric construction of the cominkowskian geometry] **86h:51013**

Struve, Rolf See Struve, Horst, **86h:51013**

Weiss, Asia Ivić See Coxeter, H. S. M., **86i:52004**

Wells, A. F. Survey of octahedral structures AX_n and A_2X_n . **86c:82055**

Zaleski, A. E. The fixed algebra of a group generated by reflections is not always free. **86a:20051**

51F20 Congruence and orthogonality [See also 20H05.]

Biggs, N. L. (with Shawe-Taylor, John) Rotations and graphs with large girth. **86g:51031**

Eilers, Erich W. The Minkowski group. **86i:51013**

Gabrishidze, A. A. A class of symmetric sets. (Russian. English and Georgian summaries) **86i:51014**

(Mason, J. H.) See Biggs, N. L., **86g:51031**

Moppert, C. F. The group of rotations of the sphere: generators and relations. **86g:51032**

Präsmowski, Krzysztof Congruence versus incidence on the Euclidean plane. **86i:51015**

Samaga, Hans-Joachim Über Abstand 1 erhaltende Abbildungen in Minkowski-Ebenen. (English summary) [On mappings in Minkowski planes preserving unit distance] **86a:51022**

Schröder, Eberhard M. On foundations of metric geometries. **86g:51033**

Shawe-Taylor, John See Biggs, N. L., **86g:51031**

Smith, James T. Point-hyperplane axioms for orthogonal geometries. **86g:51034**

Group theoretic characterization of metric geometries of arbitrary dimension. **86g:51035**

Stanik, Rotraut Beispiele invarianter Bewertungsringe und Rechteitebenen. [Examples of invariant valuation rings and rectangular planes] **86g:51036**

Struve, Horst Ein gruppentheoretischer Aufbau der äquiformen Geometrie. [A group-theoretical construction of conformal geometry] **86g:51037**

secondary classifications (51F20)

Andalafte, E. Z. (with Diminnie, Charles R.; Freese, R. W.) (α, β) -orthogonality and a characterization of inner product spaces. **86m:46023**

Diminnie, Charles R. See Andalafte, E. Z. et al., **86m:46023**

Freese, R. W. See Andalafte, E. Z. et al., **86m:46023**

James, Donald G. On the geometry of symmetric and alternating forms. **86a:20050**

Präsmowski, Krzysztof The hyperbolic geometry with horocycles as primitive notions. **86h:51030**

Schaeffer, Helmut Abbildungen in Ebenen über zweidimensionalen Algebren, die den Lorentz-Minkowski-Abstand 1 invariant lassen. [Mappings in planes over two-dimensional algebras which leave the Lorentz-Minkowski distance 1 invariant] **86f:51011**

Stanik, Rotraut Eine Kennzeichnung der nicht Fanoschen Rechteitebenen durch Inzidenz, Parallelität und Kongruenz. (English summary) [A characterization of non-Fano rectangular planes by incidence, parallelism and congruence] **86i:51009**

51F25 Orthogonal and unitary groups [See also 20H05.]

Coxeter, H. S. M. Surprising relationships among unitary reflection groups. **86a:51033**

Eilers, Erich W. (with Hähl, Hermann) A homogeneous description of inhomogeneous Minkowski groups. **86j:51022**

Hähl, Hermann See Eilers, Erich W., **86j:51022**

Hausknecht, Karin (with Löwen, Rainer) Charakterisierung von orthogonalen Gruppen durch Beweglichkeitseigenschaften. [Characterization of orthogonal groups by properties of mobility] **86h:51024**

Löwen, Rainer See Hausknecht, Karin, **86h:51024**

secondary classifications (51F25)

Friedlein, Heinz-Reiner Normalformen für Bewegungen in hyperbolischen Räumen. (English summary) [Normal forms for motions in hyperbolic spaces] **86g:20058**

Struve, Rolf Eine Algebraisierung euklidischer Ebenen. [An algebraization of Euclidean planes] **86a:51002**

51F99 None of the above, but in this section

Gascón, Fermín See González Arnas, Pilar, **86h:51025**

González Arnas, Pilar (with Gascón, Fermín) The cube-space of a solid. (Spanish) **86h:51025**

Präsmowski, Krzysztof Classical geometrical groups acting on geometrical objects. **86g:51038**

Samaga, Hans-Joachim A remark on the characterization of semi-isometries over skewfields. **86c:51015**

Schattschneider, Doris J. The taxicab group. **86b:51027**

Tingley, D. W. Metric transformations of R into H^n . **86b:51028**

secondary classifications (51F99)

Astrakov, S. N. Mappings that preserve the pseudo-Euclidean volume. (Russian) **86c:51030**

Béteky, K. See Tamásy, L., **86i:51017**

Birman, Graciela S. (with Nomizu, Katsumi) Trigonometry in Lorentzian geometry. **86a:51012**

Bresuleanu, Al. (with Rădulescu, Dan) About the foundations of the special theory of relativity. **86g:83004**

Fekete, A. E. Normal subgroups and invariants in the category of transformation groups. **86i:20009**

Frank, Herbert ★ Geochronometrie (ohne Instabilitäten). Teil V. (German) [Geochronometry (without instabilities). Part V] **86f:83062**

Kul'pina, T. I. Metrizations of an affine space over a finite field of characteristic 2. (Russian) **86j:51016**

Lemin, A. Yu. Closeness on isosceles spaces. (Russian) **86j:54059**

Maraschini, W. Isometries in taxicab geometry. (Italian) **86g:51030**

Nomizu, Katsumi See Birman, Graciela S., **86a:51012**

Radó, F. (with Tartja, C.) A characterization of the isometries of the rational Minkowski plane. **86j:51009**

Rădulescu, Dan See Bresuleanu, Al., **86g:83004**

Roy, Sisir Lie isotopic lifting, stochastic space-time and the Helmholtz-Lie space problem. **86i:51017**

Schwartz, Jacob (with Sharir, Micha) On the piano movers' problem. III. Coordinating the motion of several independent bodies: the special case of circular bodies moving amidst polygonal barriers. **86a:52016**

Schwartz, Binyamin (with Zaks, Abraham) Geometries of the projective matrix space. **86m:20059**

Sharir, Micha See Schwartz, Jacob, **86a:52016**

Tamásy, L. (with Béteky, K.) On the coincidence of two kinds of ellipses in Minkowskian spaces and in Finsler planes. **86i:51017**

Tartja, C. See Radó, F., **86j:51009**

Wilker, J. B. Variations on a theme of Montgomery and Zippin. **86b:22021**

Zaks, Abraham See Schwartz, Binyamin, **86m:20059**

Zelinka, Bohdan Symmetries of woven fabrics. (Russian and Czech summaries) **86c:05055**

51G05 Ordered geometries (ordered incidence structures, etc.)

Grochowaka, Małgorzata (with Präsmowski, Krzysztof) Dimension-free ordered affine geometry and its axiomatics. (Russian summary) **86a:51034**

Kroll, Hans-Joachim Ordered projective geometries based on the notion of betweenness. **86a:51035**

Präsmowski, Krzysztof See Grochowaka, Małgorzata, **86a:51034**

secondary classifications (51G05)

Baker, Catharine A. Ordered affine Hjelmslev planes. **86c:51008**

(with Lane, Norman D.; Lorimer, Joseph W.; Laxton, James A.) Preordered affine Hjelmslev planes. **86c:51009**

Preordered uniform Hjelmslev planes. **86c:51007**

Lane, Norman D. See Baker, Catharine A. et al., **86c:51009**

Laxton, James A. See Baker, Catharine A. et al., **86c:51009**

Lorimer, Joseph W. See Baker, Catharine A. et al., **86c:51009**

Manders, Kenneth L. Interpretations and the model theory of the classical geometries. **86h:03070**

51Hxx Topological geometry

51H10 Topological linear incidence structures

Betten, Dieter (with Weigand, Carsten) Groups of projectivities of topological planes. **86c:51023**

- Bresleanu, Al. (with Rădulescu, Dan; Turtoi, Adriana) Sur la topologie de l'espace de Minkowski. (English summary) [On the topology of Minkowski space] **86c:51016**
- Herbert, Irmina Metric incidence structures. (Russian summary) **86c:51017**
- Rădulescu, Dan See Bresleanu, Al. et al., **86c:51016**
- Salsmann, Helmut Homogeneous translation groups. **86i:51018**
- Steinke, Günter F. Topological affine planes composed of two Desarguesian half planes and projective planes with trivial collineation group. **86j:51023**
- Turtoi, Adriana See Bresleanu, Al. et al., **86c:51016**
- Weigand, Carsten See Betten, Dieter, **86c:51023**
- Wernicke, Bernd Topologische desarguessche Ebenen (Char. $\neq 2$) im spiegelsymmetrischen Aufbau. [Topological Desarguesian planes (char $\neq 2$) in a reflection-geometric setting] **86b:51029**

secondary classifications (51H10)

- Bernardi, M. P. (with Torre, Anna) Some questions of existence and continuity for (m, n) -spreads and semicollineations. (Italian. English summary) **86f:51001**
- Torre, Anna See Bernardi, M. P., **86f:51001**

51H15 Topological nonlinear incidence structures

- Lorimer, Joseph W. Compactness in topological Hjelmslev planes. **86a:51038**
- Steinke, Günter F. Locally Miquelian Benz planes. **86c:51024**
- The automorphism group of locally compact connected topological Benz planes. **86c:51018**

51H20 Topological geometries on manifolds [See also 57-XX.]

- Denisova, N. S. Geometry of spaces whose fundamental groups are obtained from noncompact simple Lie groups. (Russian) **86m:51022**
- Nikulin, V. V. (with Shafarevich, I. R.) ★ Геометрии и группы. (Russian) [Geometries and groups] **86f:51021**
- Shafarevich, I. R. See Nikulin, V. V., **86f:51021**
- Shpil, G. B. Projective geometry on algebraic varieties. (Russian) **86m:51023**

51H25 Geometries with differentiable structure [See also 53Cxx, 53C70.]

- Bélteki, K. See Tamásy, L., **86i:51017**
- Tamásy, L. (with Bélteki, K.) On the coincidence of two kinds of ellipses in Minkowskian spaces and in Finsler planes. **86i:51017**

secondary classifications (51H25)

- Atsuyama, Kenji The connection between the symmetric space $E_6(10)/SO(10) \cdot SO(2)$ and projective planes. **86k:53067**
- Denisova, N. S. Geometry of spaces whose fundamental groups are obtained from noncompact simple Lie groups. (Russian) **86m:51022**

51H30 Geometries with algebraic manifold structure [See also 14-XX.]

secondary classifications (51H30)

- Shpil, G. B. Projective geometry on algebraic varieties. (Russian) **86m:51023**

51H99 None of the above, but in this section

secondary classifications (51H99)

- Barcellos, Anthony The fractal geometry of Mandelbrot. **86h:00001**
- See also Additional perspectives on fractals, **86h:00002**
- Kalai, Gil f -vectors of acyclic complexes. **86k:52010**
- (Mandelbrot, Benoit B.) See Additional perspectives on fractals, **86h:00002**
- Additional perspectives on fractals Additional perspectives on fractals. **86h:00002**

51Jxx Incidence groups

51J05 General theory

- Karsel, H. Affine incidence groups. **86b:51030**
- (with Maxson, Carlton J.) Fibered groups with nontrivial centers. **86h:51026**
- Maxson, Carlton J. See Karsel, H., **86h:51026**

51J15 Kinematic spaces

- Fernández Sanjuan, M. A. Geometry and kinematics. (Spanish. English summary) **86k:51013**

secondary classifications (51J15)

- Karsel, H. (with Kist, Günter) Determination of all near vector spaces with projective and affine fibrations. **86d:51011**
- Kist, Günter See Karsel, H., **86d:51011**
- Röschel, Otto Kinematische Abbildung der ebenen isotropen Zwangsläufe. (English summary) [Kinematic mapping of planar isotropic forced motions] **86i:53008**
- Stanik, Rotraut Eine Kennzeichnung der nicht Fanoischen Rechtsebenen durch Inzidenz, Parallelität und Kongruenz. (English summary) [A characterization of non-Fano rectangular planes by incidence, parallelism and congruence] **86i:51009**

51J20 Representation by near-fields and near-algebras [See also 12K05, 16A76.]

- Karsel, H. (with Kist, Günter) Determination of all near vector spaces with projective and affine fibrations. **86d:51011**
- Kist, Günter See Karsel, H., **86d:51011**
- Maxson, Carlton J. Near-rings associated with generalized translation structures. **86i:51018**

secondary classifications (51J20)

- Grundhöfer, Theo Finite subplanes and affine projectivities of translation planes. **86a:51005**
- Hartmann, Erich Über zwei Klassen von Tits-Fastkörpern. [On two classes of Tits nearfields] **86c:12006**
- Kaya, Rüstem On the connection between ternary rings and the restricted dual Pappus theorems. II. (Turkish summary) **86f:51005**
- Ostrom, T. G. Quaternion groups and translation planes related to the solvable nearfield planes. **86c:51007**
- Wefelscheid, Heinrich Zur Nichtexistenz scharf 2-transitiver Permutationsmengen in scharf 3-fach transitiven Gruppen. (Italian summary) [On the nonexistence of sharply 2-transitive permutation sets in sharply 3-fold transitive groups] **86c:20003**

51Kxx Distance geometry

51K05 General theory

- Andalafte, E. Z. (with Freese, R. W.) New metric characterizations of Banach spaces. **86j:51024**
- Deza, Michel Small pentagonal spaces. **86a:51037**
- Freese, R. W. See Andalafte, E. Z., **86j:51024**
- Tingley, D. W. Metric transformations of the real line. **86f:51022**
- Yang, Lu See Zhang, Jing Zhong (Not in MR)
- Zhang, Jing Zhong (with Yang, Lu) On a problem of Stolarsky. (Chinese) (Not in MR)

secondary classifications (51K05)

- Herbert, Irmina Metric incidence structures. (Russian summary) **86c:51017**
- Motzkin, T. S. (with Schoenberg, I. J.) On Fejér sets in linear and spherical spaces. **86h:46037**
- Schoenberg, I. J. See Motzkin, T. S., **86h:46037**

51K10 Synthetic differential geometry

secondary classifications (51K10)

- Penon, Jacques De l'infinitésimal au local. [From the infinitesimal to the local] **86g:18003**

51K99 None of the above, but in this section

- Dandurand, Alain The rigidity of compound spatial grids. **86a:51038**
- Hinrichs, Lowell A. Prismic tetrads. **86a:51039**
- Mikhailichenko, G. G. Group symmetry and phenomenological symmetry in geometry. (Russian) **86f:51023**
- Räts, Jürg On light-cone-preserving mappings of the plane. **86c:51025**
- White, Neil L. The bracket of 2-extensors. **86c:51026**
- Whiteley, Walter A correspondence between scene analysis and motions of frameworks. **86a:51040**

secondary classifications (51K99)

- Barnabei, Marilena (with Cohen, Gérard Denis) Extremal bi-invariant distances on the symmetric group. (Italian. English summary) **86a:20005**
- Blokhuis, A. A new upper bound for the cardinality of 2-distance sets in Euclidean space. **86h:52008**
- Cleary, Joan (with Morris, Sidney A.) Numerical geometry...not numerical topology. **86g:54042**
- Cohen, Gérard Denis See Barnabei, Marilena, **86a:20005**
- Deza, Michel (with Frankl, P.) Bounds on the maximum number of vectors with given scalar products. **86k:52009**
- Florescu, Liviu Metric bases. **86f:54045**
- Frankl, P. See Deza, Michel, **86k:52009**
- Gentili, Graziano Distances on convex cones. **86a:52003**
- Graham, R. L. On isometric embeddings of graphs. **86f:05055a**
- (with Winkler, Peter M.) On isometric embeddings of graphs. **86f:05055b**
- Kuz'minykh, A. V. Minimal conditions determining isometries and similarities. (Russian) **86h:51029**
- Morris, Sidney A. See Cleary, Joan, **86g:54042**
- Rooney, Joe (with Wilson, Robin J.) The mobility of a graph. **86c:05059**
- Samaga, Hans-Joachim A remark on the characterization of semi-isometries over skewfields. **86c:51015**
- Tay, Tiong Seng Rigidity of multigraphs. II. **86c:05061**
- Tingley, D. W. Metric transformations of \mathbb{R} into H^n . **86b:51028**
- Whiteley, Walter Infinitesimal motions of a bipartite framework. **86c:52009**
- Infinitesimally rigid polyhedra. I. Statics of frameworks. **86c:52010**
- Wilson, Robin J. See Rooney, Joe, **86c:05059**
- Winkler, Peter M. See Graham, R. L., **86f:05055b**

51Lxx Geometric order structures [See also 53C75.]

51L05 Geometry of orders of nondifferentiable curves

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Nowosad, Pedro See Young, L. C., 86f:51017

Young, L. C. (with Nowosad, Pedro) Generalized curve approach to elementary particles. 86f:51017

51L10 Directly differentiable curves

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Blastrický, Tibor (with Scherk, Peter) Ordinary arcs on convex bodies. 86e:53051

On the singularities of simple plane curves. 86f:53075

Scherk, Peter See Blastrický, Tibor, 86e:53051

Spear, Gary Multiplicities of singular points on arcs and curves of cyclic order four. 86e:53052

51L15 n -vertex theorems via direct methods

Blastrický, Tibor Inflectional convex space curves. 86e:51027

An n -vertex theorem for convex space curves. 86g:51039

51L99 None of the above, but in this section

Haupt, Otto (with Nöbeling, Georg) Über die ordnungshomogenen Teile von Räumen, Flächen und Kurven. [On the order-homogeneous parts of spaces, surfaces and curves] 86m:51024

Nöbeling, Georg See Haupt, Otto, 86m:51024

51Mxx Real and complex geometry

51M05 Euclidean geometries

Au-Yang, Yik Hoi A simple proof of the strong converse of Morley's trisector theorem. 86h:51027

Bergum, Gerald E. See Shannon, A. G. et al., 86e:51019

Chiriță, Marcel Applications of some inequalities of P. Erdős. (Romanian) 86f:51024

Horadam, A. F. Coaxial circles associated with recurrence-generated sequences. 86b:51031

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Heß, Chén Jung On orthopole lines, isopole lines and generalizations of Kantor's theorem. 86a:51041

On the circle of orthopoles, circles of orthopole K -points and the related system of center circles. 86m:51025

Kroll, Wolfgang Eine kinematische Hinführung zum Neunpunktkreis eines Dreiecks und zum Satz von Feuerbach. [A kinematic approach to the nine-point circle of a triangle and to the theorem of Feuerbach] 86f:51025

Pop, I. Concerning the theorem of D. Pompeiu on the equilateral triangle. (Romanian) 86k:51014

Pucci, Carlo Down with Euclid or long live Euclid? (Italian) (Not in MR)

Scherer, Karl Some new types of closure properties in the plane. 86b:51032

Shannon, A. G. (with Horadam, A. F.; Bergum, Gerald E.) Infinite classes of sequence-generated circles. 86e:51019

Stammiller, Ludwig Klassifikation ebener Dreiecke nach Abstandsrelationen. [Classification of plane triangles according to distance relations] 86i:51019

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Über die Grundlagen der euklidischen Geometrie. III. [On the foundations of Euclidean geometry. III] 86a:51043

Wunderlich, Walter Ebene und räumliche Kurven mit einem beweglichen geschlossenen Sehnepolygon. [Plane and spatial curves with a movable closed inscribed polygon] 86f:51026

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Biggs, N. L. (with Shawe-Taylor, John) Rotations and graphs with large girth. 86g:51031

Böhm, Johannes (with Börner, W.; Hertel, E.; Krötenheerdt, O.; Mögling, W.; Stammiller, Ludwig) ★ Geometrie. I. (German) [Geometry. I] 80j:51001

Börner, W. See Böhm, Johannes et al., 80j:51001

Bottema, O. (with Veldkamp, G. R.) Eine Bernoulli-Eulersche Aufgabe aus der Geometrie. [A Bernoulli-Euler problem in geometry] 86g:51041

Coxeter, H. S. M. The Lehms inequality. 86h:51038

van de Craats, J. On Galilean geometry. 86e:51021

Fan, Ky An identity for symmetric bilinear forms. 86b:51028

Fritsch, R. Energietetraeder? (Energie-Impuls-Räume und -Flächen). [Energy tetrahedra? (Energy-momentum spaces and surfaces)] 86e:51023

Gabrichidze, A. A. A class of symmetric sets. (Russian. English and Georgian summaries) 86i:51014

Hertel, E. See Böhm, Johannes et al., 80j:51001

Krats, Johannes Neuere Entwicklungen im Rahmen der Didaktik der Geometrie. [Recent developments in the didactics of geometry] 86e:51002

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Liu, Xiao Ning Some inequalities for the elements of a triangle. (Chinese) (Not in MR)

Mandan, Sahib Ram Application of umbilical projection. 86h:51032

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Mögling, W. See Böhm, Johannes et al., 80j:51001

Ogata, Takahide On the axes of triangles. 86h:51033

Pickert, Günter Von Ellipseenscharen zu einem Dreiecksatz. [From families of ellipses to a triangle theorem] 86g:51047

Prażmowski, Krzysztof Congruence versus incidence on the Euclidean plane. 86i:51015

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van Yseren, J. Ceva going retrograde. 86e:51003

Zhang, Jing Zhong (with Yang, Lu) On a problem of Stolaraky. (Chinese) (Not in MR)

51M10 Hyperbolic and elliptic geometries

Beardon, A. F. (with Wilker, J. B.) The norm of a Möbius transformation. 86b:51033

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Prażmowski, Krzysztof The hyperbolic geometry with horocycles as primitive notions. 86h:51030

Sisrovica, Vlasta Vollkommen zirkuläre Fusspunktakurven der hyperbolischen Ebene. (English and Serbo-Croatian summaries) [Completely circular pedal curves of the hyperbolic plane] 86k:51015

Wilker, J. B. See Beardon, A. F., 86b:51033

secondary classifications (51M10)

Berger, Marcel ★ Géométrie. 5. (French) [Geometry. 5] 86b:51001

Davis, Michael Walter A hyperbolic 4-manifold. 86h:51016

Fagundes, Hello V. Quasar-galaxy associations with discordant redshifts as a topological effect. I. Two-dimensional study. 86e:83064

Gyarmathi, A. (with Gyarmathi, L.) Die Verwendung der Zentralprojektion im Modell Cayley-Klein des hyperbolischen Raumes. [The use of the central projection in the Cayley-Klein model of the hyperbolic space] 86c:51020

Gyarmathi, L. See Gyarmathi, A., 86c:51020

Jank, Walther Über elliptisch und euklidisch abwickelbare Hyperkegel. (English summary) [On elliptically and Euclidean developable hypercones] 86e:53008

Kadomtsev, S. B. ★ Геометрия Лобачевского и физика. (Russian) [Lobachevskii geometry, and physics] 86a:51001

Lee, Youn A geometric method for presenting subgroups of discrete groups. 86b:20032

Moppert, C. F. The group of rotations of the sphere: generators and relations. 86g:51032

Mycielski, Jan (with Wagon, Stan) Large free groups of isometries and their geometrical uses. 86a:20042

Wagon, Stan See Mycielski, Jan, 86a:20042

51M15 Geometric constructions

Bottema, O. (with Veldkamp, G. R.) Eine Bernoulli-Eulersche Aufgabe aus der Geometrie. [A Bernoulli-Euler problem in geometry] 86g:51041

Pătrașcu, I. A theorem concerning Brocard points. (Romanian) (Not in MR)

Schreiber, P. ★ Grundlagen der konstruktiven Geometrie. (German) [Foundations of constructive geometry] 86e:51028

Tay, Tiong Seng (with Whiteley, Walter) Recent advances in the generic rigidity of structures. 86i:51020

Veldkamp, G. R. See Bottema, O., 86g:51041

Vogler, Hans Elementargeometrische Betrachtungen über die Durchdringungskurve eines schiefen Kreiskegels und einer Kugel mit einer gemeinsamen Symmetrieebene. [Elementary-geometric observations on the intersection curve of a skew circular cone and a sphere with a joint symmetry plane] 86i:51021

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Adam, Paul (with Wyss, Arnold) ★ Platonische und Archimedische Körper, ihre Sternformen und polaren Gebilde. (German) [Platonic and Archimedean solids, their star forms and polar configurations] 86h:52004

(Bühler, Ernst) See Adam, Paul, 86h:52004

Heß, Chén Jung On the circle of orthopoles, circles of orthopole K -points and the related system of center circles. 86m:51025

Kahane, Jean-Pierre La théorie de Théodore des corps quadratiques réels. [Theodoros' theory of real quadratic fields] 86k:11011

Wunderlich, Walter Kongruent-inverse Kurvenpaare. [Congruent-inverse pairs of curves] 86m:51006

Wyss, Arnold See Adam, Paul, 86h:52004

Zeitler, Herbert Bekanntes und weniger Bekanntes zum Arbelos. Der Arbelos als Quelle von Aufgaben. [Some known and some lesser-known facts about the arbelos. The arbelos as a source of problems] 86h:51026

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51M20 Polyhedra and polytopes; regular figures, division of spaces

[See also 51F15.]

Bankston, Paul (with Fox, Ralph) Topological partitions of Euclidean space by spheres. 86k:51016

Besdek, Károly (with Pach, János) A point set everywhere dense in the plane. 86m:51026

Bleicher, Michael N. Decomposition of a k -gon by l -gons. 86e:51029

Devíď, Vladimír Über eine Klasse von Tetraedern. (English and Serbo-Croatian summaries) [On a class of tetrahedra] 86j:51025

- Fàbrega, Albert** (with Vila, Sebastià) The tetraedric: an example of recurrent surfaces in space. (Catalan) **86j:51026**
- Fox, Ralph** See Bankston, Paul, **86k:51016**
- Fritsch, R.** Zur Kantenzinkellumme der regulären Pyramiden. [On the sum of edge angles of regular pyramids] **86j:51027**
- Hurley, A. C.** Some helical structures generated by reflexions. **86m:51027**
- Mamistvalov, A. G.** Invariants of classes of affine-equivalent figures generated by regular polygons. (Russian. English and Georgian summaries) **86g:51042**
- Pach, János** See Besdek, Károly, **86m:51026**
- Seidel, J. J.** Polytopes and non-Euclidean geometry. **86a:51044**
- Vila, Sebastià** See Fàbrega, Albert, **86j:51026**

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- Coxeter, H. S. M.** Surprising relationships among unitary reflection groups. **86a:51033**
- Danser, L.** Regular incidence-complexes and dimensionally unbounded sequences of such. I. **86k:52006**
- Edelman, Paul H.** (with Walker, James W.) The homotopy type of hyperplane posets. **86j:52004**
- Füredi, Zoltán** (with Palásti, I.) Arrangements of lines with a large number of triangles. **86i:52005**
- Hendriks, Harrie** Hyperplane complements of large type. **86j:32023**
- Hohenberg, Fritz** Das abgestumpfte Dodekaeder des Archimedes und seine projektiven Eigenschaften. [The snub dodecahedron of Archimedes and its projective properties] **86c:52006**
- Vier Verallgemeinerungen des abgestumpften Dodekaeders. [Four generalizations of the snub dodecahedron] **86g:52014**
- Projektive Eigenschaften zweier besonderer Systeme von Polyedern der Dodekaedergruppe. [Projective properties of two special systems of polyhedra of the dodecahedral group] **86g:52015**
- Lasak, Marek** Partition of sets of three-dimensional Euclidean space into subsets of two times less diameters. **86c:52019**
- Marchetti-Spaccamela, A.** (with Talamo, Maurizio) Probabilistic analysis of two Euclidean location problems. (French summary) **86a:68040**
- Miyasaki, Koji** Four-dimensional regular hexagon. **86g:52024**
- Orlik, Peter** (with Solomon, Louis; Terao, Hiroaki) Arrangements of hyperplanes and differential forms. **86m:32018**
- Palásti, I.** See Füredi, Zoltán, **86i:52005**
- Pellegrino, Giuseppe** On the number of incongruent k -gons inscribed in a circle. (Italian) **86b:05007**
- Pokrovskii, V. G.** Linear relations in dissections into n -dimensional parallelepipeds. (Russian) **86k:52016**
- Shashkin, Yu. A.** ★Эйлерова характеристика. (Russian) [The Euler characteristic] **86h:52006**
- Solomon, Louis** See Orlik, Peter et al., **86m:32018**
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- Walker, James W.** See Edelman, Paul H., **86j:52004**
- Zamorsaeva, E. A.** Regular partitions of a space for conical similarity symmetry groups. (Russian) **86a:52021**

51M25 Length, area and volume [See also 26B15.]

- Astrakov, S. N.** Mappings that preserve the pseudo-Euclidean volume. (Russian) **86c:51030**
- Brânzil, Dan** A geometric minimum problem. (Romanian summary) **86k:51017**
- Daan, Jin Jee** Trigonometric laws on Lorentzian sphere S_1^2 . **86f:51027**
- Ella, Michele** (with Galizia Angeli, M. T.) The length of a lemniscate. **86g:51043**
- Fisher, J. Chris** (with Ruoff, D.; Shilleto, J.) Perpendicular polygons. **86c:51031**
- Galizia Angeli, M. T.** See Ella, Michele, **86g:51043**
- Liu, Xiao Ning** Some inequalities for the elements of a triangle. (Chinese) (Not in MR)
- Nitsche, Johannes C. C.** A volume formula. **86c:51032**
- Ruoff, D.** See Fisher, J. Chris et al., **86c:51031**
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- Dutkevich, Yu. G.** The area of a rectangle containing a closed curve. (Russian) **86c:52014**
- Lester, J. A.** On distance-preserving transformations of lines in Euclidean three-space. **86g:51046**
- Walker, Marshall** Golden cuboid sequences. **86j:11023**
- Wunderlich, Walter** Ebene und räumliche Kurven mit einem beweglichen geschlossenen Sehnepolygon. [Plane and spatial curves with a movable closed inscribed polygon] **86f:51026**

51M30 Line geometries and their generalizations

- Šturić-Čudovan, Vlasta** Einige Probleme die durch die Einteilung eines Bündels der Flächen 2. Grades in ∞^1 Büschel solcher Flächen entstanden sind. I. (English and Serbo-Croatian summaries) [Some problems which result from the partition of a net of second degree surfaces into ∞^1 -pencils of such surfaces. I.] **86m:51028**

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- Andalafte, E. Z.** See Freese, R. W., **86h:52002**
- Bichara, Alessandro** (with Somma, Clelia) A characterization of Schubert manifold associated with a three-dimensional projective space. **86a:51007**
- Dandurand, Alain** The rigidity of compound spatial grids. **86a:51038**
- Freese, R. W.** (with Andalafte, E. Z.) Criteria for unique metric lines. **86h:52002**

- Sachs, Hans** Klassifikationstheorie der linearen Komplexbüschel des Flaggenraumes $I_3^{(2)}$. (English and Serbo-Croatian summaries) [Classification theory of pencils of linear complexes of the flag space $I_3^{(2)}$] **86i:53014**
- Lineare Komplexbüschel im einfach isotropen Raum. (English summary) [Linear complex bundles in a simply isotropic space] **86j:53024**
- Somma, Clelia** See Bichara, Alessandro, **86a:51007**

51M35 Synthetic treatment of fundamental manifolds in projective geometries (Grassmannians, Veronesians and their generalizations) [See also 14M15.]

- Di Fiore, Lora** (with Freni Casale, Sveva) Some properties of Segre varieties. (Italian. English summary) **86c:51033**
- Freni Casale, Sveva** See Di Fiore, Lora, **86c:51033**
- Milojević, M.** A projective model of two-dimensional geometry which is dual to pseudo-Euclidean geometry. (Serbo-Croatian. English summary) **86i:51022**

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- Apotelova, M. P.** A hyperquintic in P_4 , obtained by stereographic projection of a quadric on a plane. (Bulgarian. English and Russian summaries) **86d:14053**
- Lausch, Huberta** Äußere Produkte torsionsfreier abelscher Gruppen und nilpotente Gruppen der Klasse zwei. [Exterior products of torsion-free abelian groups and nilpotent groups of class two] **86c:20061**
- Lunardon, Guglielmo** Planar fibrations and algebraic subvarieties of the Grassmann variety. (Italian. English summary) **86b:51008**
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51M99 None of the above, but in this section

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- Coxeter, H. S. M.** (with Edge, W. L.) The simple groups $PSL(2, 7)$ and $PSL(2, 11)$. **86a:14030**
- Edge, W. L.** See Coxeter, H. S. M., **86a:14030**
- Fahline, Donald E.** Planar factors of proper homogeneous Lorentz transformations. **86c:33002**
- Geise, Gerhard** (with Harms, Susanne; Stammier, Ludwig; Uhlig, Andreas) Krümmungsabhängige Schrittweitensteuerung ohne höhere als erste Ableitung durch Nutzung eines kreisnahen Polygonstreifenmodells. [Curvature-dependent step-size control by a derivative no higher than the first, using circle-like polygonal strip models] **86h:52021**
- Harms, Susanne** See Geise, Gerhard et al., **86h:52021**
- Schwars, Binyamin** (with Zaks, Abraham) Geometries of the projective matrix space. **86m:20059**
- Stammier, Ludwig** See Geise, Gerhard et al., **86h:52021**
- Uhlig, Andreas** See Geise, Gerhard et al., **86h:52021**
- Zaks, Abraham** See Schwars, Binyamin, **86m:20059**

51Nxx Analytic and descriptive geometry

51N05 Descriptive geometry

- Chorbadzhiev, D. P.** New methods in nonlinear relief perspective. (Bulgarian. English and Russian summaries) **86i:51023a**
- On the problem of constructing a nonlinear relief perspective. (Bulgarian. English and Russian summaries) **86i:51023b**
- Some geometric ideas in a nonlinear relief perspective on a convex layer. (Bulgarian. English and Russian summaries) **86i:51023c**
- Geise, Gerhard** (with Martini, Horst) Natürlich-kinematische Erzeugung isophotischer Elementarscharen aus ebensolchen bei klassischer geometrischer Zentralbeleuchtung. [Natural-kinematic generation of isophotic families of elements from like elements with classical geometric central illumination] **86j:51028**
- Glogovskii, V. V.** Operators of graphic mappings. II. (Russian) **86f:51028**
- Gyarmathi, A.** (with Gyarmathi, L.) Die Verwendung der Zentralprojektion im Modell Cayley-Klein des hyperbolischen Raumes. [The use of the central projection in the Cayley-Klein model of the hyperbolic space] **86c:51020**
- Gyarmathi, L.** See Gyarmathi, A., **86c:51020**
- Li, Gui Lan** A graphic method for determining the projective position of special points of intersecting lines on a symmetrical surface. (Chinese. English summary) (Not in MR)
- Martini, Horst** See Geise, Gerhard, **86j:51028**
- Shulalec, Andzej** On the problems of incidence in descriptive geometry. **86h:51031**

secondary classifications (51N05)

- Bär, Gert** Konstruktion Dupinischer Indikatrizen berührender Schraub- und Drehflächen. [Construction of Dupin indicatrices of osculating helical and rotation-symmetric surfaces] **86g:53008**
- Schreiber, P.** ★Grundlagen der konstruktiven Geometrie. (German) [Foundations of constructive geometry] **86c:51028**

51N10 Affine analytic geometry

- van de Craats, J.** On Galilean geometry. **86c:51021**
- Tinaglia, Calogero** The group of homographies of a plane that transform into themselves the bi-integral point configuration with respect to a homography. (Italian) **86i:51024**

secondary classifications (51N10)

- Bottema, O.** (with Veldkamp, G. R.) A linear complex of conics. (Dutch) **86a:51045**

- Schröder, Eberhard M. Affinvariante Strahlreflexion an ebenen Kurven. [Affine-invariant reflection of rays on plane curves] **86a:53002**
 Veldkamp, G. R. See Bottema, O., **86a:51045**

51N15 Projective analytic geometry

- Billnaki, Stanko Zur Charakterisierung des Doppelverhältnissbegriffes durch Funktionalgleichungen. (English and Serbo-Croatian summaries) [On the characterization of the concept of cross ratio by functional equations] **86k:51018**
 Bottema, O. (with Veldkamp, G. R.) A linear complex of conics. (Dutch) **86a:51045**
 Knitter, Konrad Collinéations cycliques d'Hermite. II. [Cyclic Hermite collineations. II] **86a:51046**
 Mandan, Sahib Ram Application of umbilical projection. **86h:51032**
 Syarova, A. B. Mapping of the space P_4 onto a hyperplane by means of a quadratic involution. (Bulgarian. English and Russian summaries) **86g:51044**
 Tadev, V. A. Metric generalization of the Desargues theorem. (Russian) **86c:51022**
 Veldkamp, G. R. See Bottema, O., **86a:51045**

secondary classifications (51N15)

- Frank, Rolfdieter Zur gruppentheoretischen Darstellung der projektiv-metrischen Geometrien. (English summary) [The group-theoretic representation of projective-metric geometries] **86a:20040**
 Li, Gui Lan A graphic method for determining the projective position of special points of intersecting lines on a symmetrical surface. (Chinese. English summary) (Not in MR)

51N20 Euclidean analytic geometry

- Connelly, Robert (with Ostro, Steven J.) Ellipsoids and lightcurves. **86b:51034**
 Fritsch, R. Energietetraeder? (Energie-Impuls-Räume und -Flächen). [Energy tetrahedra? (Energy-momentum spaces and surfaces)] **86c:51033**
 Gumen, N. S. (with Markheliuk, A. M.) Locus of points equidistant from a sphere and a straight line. (Russian) **86c:51034**
 Hoeshek, Josef Anwendungen des Dualitätsprinzips im Computer-aided geometric Design. [Applications of the duality principle in computer-aided geometric design] **86g:51045**
 Lester, J. A. On distance-preserving transformations of lines in Euclidean three-space. **86g:51048**
 Li, Shan Qing On the distribution of inflection points and singular points of the planar quartic Bézier curve. (Chinese. English summary) **86d:51012**
 Markheliuk, A. M. See Gumen, N. S., **86c:51034**
 Ogata, Takehide On the axes of triangles. **86h:51033**
 Ostro, Steven J. See Connelly, Robert, **86b:51034**
 Pickert, Günter Von Ellipsenscharen zu einem Dreiecksatz. [From families of ellipses to a triangle theorem] **86g:51047**
 Sal'kov, N. A. Graphic solution of Apollonius' problem on tangency of circles. (Russian) **86c:51025**
 Schoenberg, I. J. On Jacobi-Bertrand's proof of a theorem of Poncelet. **86m:51029**
 Ternovskiĭ, V. A. Two classes of plane algebraic curves with axes of symmetry. (Russian) **86a:51047**
 Vuchkova, V. K. On some relations between a circle and the Pascal limaçon. (Bulgarian. English and Russian summaries) **86c:51034**
 Wunderlich, Walter Ellipsen als approximative Doppelspeichenkurven. [Ellipses as approximate double autoconchoids] **86c:51035**

secondary classifications (51N20)

- Au-Yeung, Yik Hoi A simple proof of the strong converse of Morley's trisector theorem. **86h:51027**
 Bergum, Gerald E. See Shannon, A. G. et al., **86c:51019**
 Bleick, W. E. Note on 120 degree axial coordinates. **86k:70001**
 Bottema, O. (with Veldkamp, G. R.) Eine Bernoulli-Eulerische Aufgabe aus der Geometrie. [A Bernoulli-Euler problem in geometry] **86g:51041**
 Geise, Gerhard (with Martini, Horst) Natürlich-kinematische Erzeugung isophotischer Elementarscharen aus ebenen bei klassischer geometrischer Zentralbeleuchtung. [Natural-kinematic generation of isophotic families of elements from like elements with classical geometric central illumination] **86j:51028**
 Horadam, A. F. Coaxial circles associated with recurrence-generated sequences. **86b:51031**
 See also Shannon, A. G. et al., **86c:51019**
 Hsu, Chen Jung On orthopole lines, isopole lines and generalizations of Kantor's theorem. **86a:51041**
 On the circle of orthopoles, circles of orthopole K -points and the related system of center circles. **86m:51025**
 Koslov, S. E. Orthogonally compatible bivectors. (Russian) **86c:53010**
 Martini, Horst See Geise, Gerhard, **86j:51028**
 Pottmann, Helmut Holditch-Sicheln. [Holditch sickles] **86i:53006**
 Shannon, A. G. (with Horadam, A. F.; Bergum, Gerald E.) Infinite classes of sequence-generated circles. **86c:51019**
 Stammmler, Ludwig Klassifikation ebener Dreiecke nach Abstandsrelationen. [Classification of plane triangles according to distance relations] **86i:51019**
 Takeuchi, Nobuko A sphere as a surface which contains many circles. **86k:53007**
 Veldkamp, G. R. See Bottema, O., **86g:51041**

51N25 Analytic geometry with other transformation groups

- Strubecker, Karl Zwei Anwendungen der isotropen Dreiecksgeometrie auf ebene Ausgleichsprobleme. [Two applications of the isotropic geometry of the triangle to plane adjustment problems] **86g:51048**

secondary classifications (51N25)

- Duan, Jin Joe Trigonometric laws on Lorentzian sphere S^2 . **86f:51027**
 Lang, Johann Zu den linearen Sphärenmannigfaltigkeiten im einfachisotropen Raum. [On the linear sphere manifolds in the simply isotropic space] **86g:53015**
 Sachs, Hans Klassifikationstheorie der linearen Komplexbüschel des Flaggenraumes $I_3^{(2)}$. (English and Serbo-Croatian summaries) [Classification theory of pencils of linear complexes of the flag space $I_3^{(2)}$] **86i:53014**
 Schatteneider, Doris J. The taxicab group. **86b:51027**

51N30 Geometry of classical groups [See also 20Gxx, 14Lxx.]

secondary classifications (51N30)

- Djoković, Dragomir Z. (with Malzan, Jerry) Products of reflections in the group $SO^*(2n)$. **86i:22005**
 Malzan, Jerry See Djoković, Dragomir Z., **86i:22005**

51N35 Questions of classical algebraic geometry [See also 14Nxx.]

- Apostolova, M. P. Some problems in the mapping of P_3 on a plane by bisecant congruence of the normcurve C^3 . (Bulgarian. English and Russian summaries) **86c:51036**
 Ferrer Llop, Jose (with Lusa, G.; Puerta Sales, Fernando) Study and classification of quadrics in R^n by their associated metrics. (Spanish) **86b:51035**
 González-Sprinberg, Gérard (with Ruggiero, Valeria) Petites déformations de droites dans le plan projectif réel. (Italian summary) [Small deformations of lines in the real projective plane] **86a:51048**
 Hartl, Johann Zerfallende Quadrikenanschnitte und stereographische Projektion. (English summary) [Decomposing intersections of quadrics and stereographic projection] **86m:51030a**
 Correction to my paper: "Decomposing intersections of quadrics and stereographic projection" [J. Geom. **22** (1984), no. 2, 149-152] (German). **86m:51030b**
 Ignatenko, V. F. On a general equation of a plane algebraic curve with axial symmetry. (Russian) **86j:51029**
 Knitter, Konrad Suites périodiques des antipolarités. [Periodic sequences of antipolarities] **86f:51029**
 Łokiewicz, Genowefa Propriétés de l'ensemble des plans polaires d'un point par rapport aux quadriques du faisceau de quadriques réglées. (Polish summary) [Properties of the set of polar planes of a point with respect to the quadrics of the pencil of ruled quadrics] **86m:51031**
 Lusa, G. See Ferrer Llop, Jose et al., **86b:51035**
 Puerta Sales, Fernando See Ferrer Llop, Jose et al., **86b:51035**
 Ruggiero, Valeria See González-Sprinberg, Gérard, **86a:51048**
 Stanilova, L. R. Investigation of a collineation group preserving a three-dimensional cubic in a five-dimensional projective space. (Bulgarian. English and Russian summaries) **86f:51030**
 Sters, Ulrich Berührungsvervollständigung für ebene Kurven dritter Ordnung. II. Konstruktion einer Vervollständigung durch Aufblasungen. [Contact completion for plane curves of third order. II. Construction of a completion by dilatations] **86g:51049**

secondary classifications (51N35)

- Coxeter, H. S. M. (with Edge, W. L.) The simple groups $PSL(2, 7)$ and $PSL(2, 11)$. **86a:14030**
 Di Fiore, Lora (with Freni Casale, Sveva) Some properties of Segre varieties. (Italian. English summary) **86c:51033**
 Edge, W. L. See Coxeter, H. S. M., **86a:14030**
 Freni Casale, Sveva See Di Fiore, Lora, **86c:51033**
 Hurd, T. R. The projective geometry of simple cosmological models. **86i:53047**
 Kaczmarek, Jerzy On a certain property of the pencil of plane curves of the n th order with a singular point of multiplicity $(n-1)$. **86a:14013**
 Schoenberg, I. J. On Jacobi-Bertrand's proof of a theorem of Poncelet. **86m:51029**
 Su, Bu Qing ★ The general projective theory of curves. **86i:53010**
 Vujaković, Dušan A ruled surface whose generators are bisecants of a 3rd order space curve, and whose directrix is a conic section. (Russian. Serbo-Croatian summary) **86b:14023**

51N99 None of the above, but in this section

secondary classifications (51N99)

- Hsu, Chen Jung On a theorem of M. Kobayashi. **86k:15015**
 Mamistvalov, A. G. Invariants of classes of affine-equivalent figures generated by regular polygons. (Russian. English and Georgian summaries) **86g:51042**
 Novozhilova, M. V. See Vinarskiĭ, V. Ya., **86k:90138**
 Tinaglia, Calogero Diophantine problems on quadratic birational transformations between two planes. (Italian. English summary) **86c:14019**
 Vinarskiĭ, V. Ya. (with Novozhilova, M. V.) A class of mappings in problems of geometric projection. (Russian) **86k:90138**

52-XX CONVEX SETS AND RELATED GEOMETRIC TOPICS

secondary classifications (52-XX)

- Kirkpatrick, David G. (with Seidel, Raimund) The ultimate planar convex hull algorithm? (Not in MR)
 Seidel, Raimund See Kirkpatrick, David G. (Not in MR)

52-01 Elementary exposition; textbooks

Benkő, Isai. Convexity seen from within and from without. I. (Romanian) 86i:52001

secondary classifications (52-01)

Baglivo, Jenny A. (with Graver, Jack E.) ★ Incidence and symmetry in design and architecture. 86i:51001

(Burns, R. G.) See Dubrovín, B. A. et al., 86m:53001

Dubrovín, B. A. (with Fomenko, A. T.; Novikov, S. P.) ★ Modern geometry—methods and applications. Part II. 86m:53001

Fomenko, A. T. See Dubrovín, B. A. et al., 86m:53001

Graver, Jack E. See Baglivo, Jenny A., 86i:51001

Klotsek, Benno (with Lengtat, Ulrich; Letzel, Eberhard; Schröter, Karin) ★ Kombinieren, parkettieren, färben. (German) [Combining, tiling, coloring] 86m:05001

Lengtat, Ulrich See Klotsek, Benno et al., 86m:05001

Letzel, Eberhard See Klotsek, Benno et al., 86m:05001

Novikov, S. P. See Dubrovín, B. A. et al., 86m:53001

Schröter, Karin See Klotsek, Benno et al., 86m:05001

52-02 Advanced exposition (research surveys, monographs, etc.)

Gruber, P. Aspects of convexity and its applications. 86f:52001

secondary classifications (52-02)

Grünbaum, Branko (with Shephard, G. C.) The geometry of fabrics. 86c:52013

Lord, E. A. (with Wilson, C. B.) ★ The mathematical description of shape and form. 86m:58030

Shephard, G. C. See Grünbaum, Branko, 86c:52013

Wilson, C. B. See Lord, E. A., 86m:58030

52-03 Historical (must also be assigned at least one classification number from Section 01)

secondary classifications (52-03)

(Fedorov, E. S.) See Senechal, Marjorie, 86g:01034

Galiulin, R. V. See Senechal, Marjorie, 86g:01034

(Helly, Eduard) See Netuka, Ivan, 86c:01025

Netuka, Ivan (with Veselý, Jiří) Eduard Helly, convexity and functional analysis. (Czech) 86c:01025

Senechal, Marjorie (with Galiulin, R. V.) An introduction to the theory of figures: the geometry of E. S. Fedorov. 86g:01034

Veselý, Jiří See Netuka, Ivan, 86c:01025

Biography:

Fedorov, E. S. See Senechal, Marjorie, 86g:01034

52-04 Explicit machine computation and programs (not the theory of computation or programming)

Ştefănescu, Ştefan Algorithms for generating uniformly distributed points in a simplex in R^n . (Romanian. English summary) 86k:52001

secondary classifications (52-04)

Arnon, Dennis S. (with Smith, Scott F.) Towards mechanical solution of the Kahan ellipse problem. I. 86j:03008

(with Collins, George E.; McCallum, Scott) Cylindrical algebraic decomposition.

I. The basic algorithm. 86h:68067a

(with Collins, George E.; McCallum, Scott) Cylindrical algebraic decomposition.

II. An adjacency algorithm for the plane. 86h:68067b

Avis, David See El-Gindy, H. et al., 86b:68046

Baumgardner, John R. (with Frederickson, Paul O.) Icosahedral discretization of the two-sphere. 86m:65154

Blair, C. E. (with Jeroslow, R. G.) Extensions of a theorem of Balas. 86b:90089

Boyce, James E. (with Dobkin, David P.; Drysdale, Robert L., III; Guibas, Leo J.) Finding extremal polygons. 86g:68148

Chang, R. C. (with Lee, R. C. T.) The average performance analysis of a closest-pair algorithm. 86h:68072

Chaselle, B. (with Guibas, Leo J.; Lee, Der Tsai) The power of geometric duality. 86h:68162

Collins, George E. See Arnon, Dennis S. et al., 86h:68067a and 86h:68067b

Dobkin, David P. See Boyce, James E. et al., 86g:68148

Drysdale, Robert L., III See Boyce, James E. et al., 86g:68148

Edelsbrunner, H. Key-problems and key-methods in computational geometry. 86a:68063

El-Gindy, H. (with Avis, David; Toussaint, Godfried T.) Applications of a two-dimensional hidden-line algorithm to other geometric problems. (German summary) 86b:68046

Frederickson, Paul O. See Baumgardner, John R., 86m:65154

Guibas, Leo J. See Boyce, James E. et al., 86g:68148 and Chaselle, B. et al., 86h:68162

Hertel, Stefan (with Mehlhorn, Kurt) Fast triangulation of simple polygons. 86a:68084

Jaromczyk, Jerzy W. Lower bounds for polygon simplicity testing and other problems. 86g:68151

Jeroslow, R. G. See Blair, C. E., 86b:90089

Kallay, Michael The complexity of incremental convex hull algorithms in R^d . 86c:68075

Keil, J. Mark Decomposing a polygon into simpler components. 86m:68132

Lee, Der Tsai See Chaselle, B. et al., 86h:68162

Lee, R. C. T. See Chang, R. C., 86h:68072

Maus, Arne Delaunay triangulation and the convex hull of n points in expected linear time. 86h:68164

McCallum, Scott See Arnon, Dennis S. et al., 86h:68067a and 86h:68067b

Mehlhorn, Kurt See Hertel, Stefan, 86a:68084

Nurmi, Otto A fast line-sweep algorithm for hidden line elimination. (Not in MR)

Ó'Dúnlaing, Colm (with Yap, Chee K.) A "retraction" method for planning the motion of a disc. 86c:68098

Orłowski, M. A convex hull algorithm for planar simple polygons. (Not in MR)

Sharir, Micha Intersection and closest-pair problems for a set of planar discs. 86c:68097

Smith, Scott F. See Arnon, Dennis S., 86j:03008

Toussaint, Godfried T. Complexity, convexity, and unimodality. 86d:68065

See also El-Gindy, H. et al., 86b:68046

Yap, Chee K. See Ó'Dúnlaing, Colm, 86c:68098

52-06 Proceedings, conferences, etc.

(Goodman, Jacob E.) See Discrete geometry and convexity, 86g:52002

(Lutwak, Erwin) See Discrete geometry and convexity, 86g:52002

(Malkevitch, Joseph) See Discrete geometry and convexity, 86g:52002

(Pollack, Richard) See Discrete geometry and convexity, 86g:52002

(Rosenfeld, Moshe) See Convexity and graph theory, 86g:52001

(Zaks, Joseph) See Convexity and graph theory, 86g:52001

Conference:

Convexity and graph theory ★ Convexity and graph theory. 86g:52001

Convexity and graph theory ★ Convexity and graph theory. 86g:52001

Discrete geometry and convexity ★ Discrete geometry and convexity. 86g:52002

Jerusalem ★ Convexity and graph theory. 86g:52001

52A01 Axiomatic and generalized convexity

Crîstescu, Gabriela Un théorème de type Carathéodory dans des espaces à convexité produit. [A Carathéodory-type theorem in convex product spaces] 86g:52003

Degreef, E. On a notion of decomposability in convexity structures. 86a:52001

Huo, Yi Qiu Fuzzy convexity (concavity). (Chinese. English summary) 86a:52002

Prekup, Radu A dual proof for the linearization of the convexity spaces. 86g:52004

Sur une notion de quasi-convexité dans des espaces abstraits. [A notion of quasiconvexity in abstract spaces] 86h:52001

Sierkma, Gerard Extending a convexity space to an aligned space. 86k:52002

secondary classifications (52A01)

Charnes, A. (with Song, T.) The extreme point characterization of semi-infinite dual non-Archimedean balls. (German summary) 86d:90080

Heidekrüger, Gerhard (with Zimmermann, Karel) Eigenschaften offener und affiner Mengen in Verbindungsstrukturen. [Properties of open and affine sets in join structures] 86i:51010

Korte, Bernhard (with Lovász, L.) Shelling structures, convexity and a happy end. 86h:05037

Lassak, Marek Families of convex sets closed under intersections, homotheties and uniting increasing sequences of sets. 86c:52003a

Errata to the paper: "Families of convex sets closed under intersections, homotheties and uniting increasing sequences of sets". 86c:52003b

Lovász, L. See Korte, Bernhard, 86h:05037

Pinch, R. G. E. α -convexity. 86e:11114

Song, T. See Charnes, A., 86d:90080

Yu, Yan Dong On the convex fuzzy sets. I. (Chinese summary) 86a:52022

Zimmermann, Karel See Heidekrüger, Gerhard, 86i:51010

52A05 Convex sets without dimension restrictions

Andalafte, E. Z. See Freese, R. W., 86h:52002

Bair, J. (with Jongmans, F.) Some remarks about recent results on the asymptotic cone. 86g:52005

Benítez, Carlos See Otero, Ma. del Carmen, (86h:00009a)

De Pierro, Alvaro R. See Iusem, Alfredo N., 86f:52002

Freese, R. W. (with Andalafte, E. Z.) Criteria for unique metric lines. 86h:52002

Gentili, Gasiano Distances on convex cones. 86a:52003

Iusem, Alfredo N. (with De Pierro, Alvaro R.) On the set of weighted least squares solutions of systems of convex inequalities. 86f:52002

Jongmans, F. See Bair, J., 86g:52005

Otero, Ma. del Carmen (with Benítez, Carlos) Hyperquadrics supporting convex sets. (Spanish. English summary) (See 86h:00009a)

Zălinescu, Constantin On convex sets in general position. 86f:52003

secondary classifications (52A05)

Chepoi, V. D. See Soltan, V. P., 86k:05102

Soltan, V. P. (with Chepoi, V. D.) Conditions for invariance of set diameters under d -convexification in a graph. 86k:05102

Tam, Bit Shun On the duality operator of a convex cone. 86j:90118

52A07 Convex sets in topological vector spaces [See also 46A55.]

Bronshtein, E. M. Topological properties of extremal boundaries of convex compacta in l^2 . (Russian) 86f:52004

Fonf, V. P. A type of infinite-dimensional polytope. (Russian) 86j:52001

Fournneau, René (with Vrećina, Siniša) Subperspectivity in lattices of closed convex sets. 86g:52006

Kleinschmidt, P. (with Wood, G. R.) Gale transforms and closed faces of infinite-dimensional polytopes. 86m:52001

Vrećina, Siniša See Fournneau, René, 86g:52006

Wood, G. R. See Kleinschmidt, P., 86m:52001

secondary classifications (52A07)

Bair, J. (with Jongmans, F.) Some remarks about recent results on the asymptotic cone. 86g:52005

- Borwein, J. M. (with Tingley, D. W.) On supportless convex sets. **86f:46009**
 Bronshtein, E. M. Extreme points of convex compacta in l^2 . (Russian) **86g:46012**
 Dilworth, S. J. The dimension of Euclidean subspaces of quasinormed spaces. **86b:46003**
 Ellis, A. J. Infinite-dimensional simplexes and their characterisations. **86g:46013**
 Isaac, G. Technologies homogenes et cones localement compacts. [Homogeneous technologies and locally compact cones] **86a:90015**
 Jongmans, F. See Blair, J., **86g:53005**
 Kocsan, Leopold (with Szapiel, Wojciech) Extremal problems in some classes of measures. I, II. **86b:28012**
 Raga, I. On the barycenter formula. **86j:46012**
 Szapiel, Wojciech See Kocsan, Leopold, **86b:28012**
 Tingley, D. W. See Borwein, J. M., **86f:46009**

52A10 Convex sets in 2 dimensions

- Buchta, C. Zerlegung eines konvexen Gebiets in konvexe Gebiete. [Decomposition of a convex domain into convex domains] **86a:52004**
 Gardner, Richard J. A problem of Sallee on equidecomposable convex bodies. **86f:52005**
 Glebier, Peter (with Weissbach, Bernulf) Zur Ausbohrung von Rhomben durch einbeschriebene Bereiche fester Breite. [The reaming of rhombi by inscribed domains of fixed width] **86j:52002**
 Grapilewicz, Ryszard Extreme convex sets in \mathbb{R}^2 . **86k:52003**
 Kovalev, M. D. Covering of convex figures by their images under dilatation. (Russian) **86g:52007**
 Longinetti, Marco Some questions of stability in the reconstruction of plane convex bodies from projections. **86f:52006**
 Sgheri, L. Mechanicographic construction of convex sets with constant width. (Italian) **86m:52002**
 Volzke, A. Well-posedness of the Gardner-McMullen reconstruction problem. **86g:52008**
 Weissbach, Bernulf See Glebier, Peter, **86j:52002**

secondary classifications (52A10)

- Avis, David See El-Gindy, H. et al., **86b:68046**
 Chakerian, G. D. (with Goodey, Paul) Inequalities involving convex sets and their chords. **86k:52011**
 Ding, Yi Shan See Lu, Ya Yan, **86f:52002**
 Edelsbrunner, H. Computing the extreme distances between two convex polygons. **86f:52023**
 El-Gindy, H. (with Avis, David; Toussaint, Godfried T.) Applications of a two-dimensional hidden-line algorithm to other geometric problems. (German summary) **86b:68046**
 Goodey, Paul See Chakerian, G. D., **86k:52011**
 Katchalski, Meir (with Lewis, Ted; Zaks, Joseph) Geometric permutations for convex sets. **86g:52019**
 Kuang, Zhi Quan A criterion for convex curves and convex surfaces. (Chinese. English summary) **86d:53004**
 Lewis, Ted See Katchalski, Meir et al., **86g:52019**
 Lu, Ya Yan (with Ding, Yi Shan) A discussion on curves of constant width. (Chinese) **86f:53002**
 Osawa, Tetsuya On Halpern's conjecture for closed plane curves. **86a:53001**
 Penskofer, Konrad Umschreibung eines konvexen Körpers des \mathbb{R}^2 mit Mittelpunkt durch ein Parallelogramm. [Circumscription of a convex body of \mathbb{R}^2 with center by a parallelogram] **86m:52013**
 Rogalski, Marc (with Saint-Raymond, Jean) Inequalities about symmetric compact convex sets in the plane. **86k:52013**
 Saint-Raymond, Jean See Rogalski, Marc, **86k:52013**
 Scherer, Karl Some new types of closure properties in the plane. **86b:51032**
 Toussaint, Godfried T. Complexity, convexity, and unimodality. **86d:68065**
 See also El-Gindy, H. et al., **86b:68046**
 Taintsis, George Two inequalities for planar convex sets. **86i:52007**
 Weissbach, Bernulf Isoperimetrische Probleme für konvexe Bereiche mit krümmungsbeschränkten Breitenkörpern. I. [Isoperimetric problems for convex domains with diametral bodies of bounded curvature. I] **86b:52007**
 Zaks, Joseph See Katchalski, Meir et al., **86g:52019**

52A15 Convex sets in 3 dimensions

- Pamfilos, Paris On the shadow lines of a convex surface. **86b:52001**
 Whiteley, Walter Infinitesimal motions of a bipartite framework. **86c:52009**

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- Björner, Anders Orderings of Coxeter groups. **86i:05024**

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- Miyazaki, Koji Four-dimensional regular hexagon. **86j:52024**
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- Okuneva, V. A. The Newton polyhedron of the superposition of polynomials. (Russian) **86c:11087**
- Papadimitriou, Christos H. Polytopes and complexity. **86a:68043**
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- Multiple coverings by n -dimensional simplexes. (Russian) **86h:52020**
- Pudlák, Pavel See Morávek, Jaroslav, **86i:90086**
- Rothblum, Uriel G. Ratios of affine functions. **86k:90128**
- Sallee, John F. The middle-cut triangulations of the n -cube. **86c:05054**
- Sarf, Herbert E. Integral polyhedra in three space. **86m:90112**
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- Taylor, Jean E. Constructing crystalline minimal surfaces. **86f:49106**
- Vila, Sebastià See Fàbrega, Albert, **86j:51026**
- Vince, Andrew A nonhallowable 3-sphere. **86k:57006**
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- Wood, G. R. See Kleinschmidt, P., **86m:52001**
- 52A30 Invariants of convex sets (star-shaped, (m, n) -convex, etc.)**
- Breen, Marilyn Clear visibility and unions of two starshaped sets in the plane. **86b:52003**
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- secondary classifications (52A30)
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- El-Gindy, H. (with Avis, David; Toussaint, Godfried T.) Applications of a two-dimensional hidden-line algorithm to other geometric problems. (German summary) **86b:68046**
- Kolodziejczyk, Krzysztof A refinement of Valentine's theorem. **86a:52013**
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- Bárány, Imre (with Katchalski, Meir; Pach, János) Helly's theorem with volumes. **86c:52010**
- Katchalski, Meir See Bárány, Imre et al., **86c:52010**
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- Pach, János See Bárány, Imre et al., **86c:52010**
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- Kalai, Gil Intersection patterns of convex sets. **86c:52002**
- van Maaren, H. See Evers, J. J. M., **86m:04007**
- Pollack, Richard See Goodman, Jacob E., **86c:52011**
- 52A37 Other problems of combinatorial geometry**
- Aharoni, R. (with Duchet, Pierre; Wajnryb, Bronisław) Successive projections on hyperplanes. **86m:52011**
- Ariel-Shefi, Elka See Sharir, Micha, **86j:52009**
- Beck, József (with Spencer, Joel H.) Unit distances. **86a:52015**
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- Wills, Jörg M. See Fejes Tóth, G. et al., **86i:52008**
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52A45 Packing, covering, tiling [See also 05B40, 05B45, 11H31, 51-XX.]

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- Densest packing of translates of a domain. 86k:52014
- See also Fejes Tóth, G., 86h:52018
- Florian, August See Fejes Tóth, G., 86a:52020
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- Kramer, P. (with Neri, R.) On periodic and nonperiodic space fillings of \mathbb{E}^m obtained by projection. 86c:52018
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- Shepherd, G. C. See Grünbaum, Branko, 86k:52015

- Stein, Sherman Packings of \mathbb{R}^n by certain error spheres. 86k:52017a
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- Grünbaum, Branko The emperor's new clothes: full regalia, G-string, or nothing? 86d:01004
- (Hilton, Peter) See Grünbaum, Branko, 86d:01004
- Hoffman, A. J. See Dantsig, George B. et al., 86h:90056
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- Tefasman, M. A. See Litsyn, S. N., 86m:11046
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52A50 Hilbert geometry [See also 51Kxx.]

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- Andalafte, E. Z. See Freese, R. W., 86h:52002
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52A55 Spherical and hyperbolic convexity

- Santaló, L. A. Notes on the integral geometry in the hyperbolic plane. 86c:52019

secondary classifications (52A55)

- Fejes Tóth, L. Density bounds for packing and covering with convex discs. 86g:52021

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 Nutzung eines kreisnahen Polygonstreifenmodells. [Curvature-dependent step-size
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 86d:12015
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53-XX DIFFERENTIAL GEOMETRY (For differential topology, see 57Rxx. For foundational questions of differentiable manifolds, see 58Axx.)

53-01 Elementary exposition; textbooks

- (Burns, R. G.) See Dubrovín, B. A. et al., 86m:53001
 Cirulka, T. (with Neimaniš, V.) ★Diferenciāģometrija. (Latvian) [Differential geome-
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secondary classifications (53-01)

- Murakami, Shingo ★Tayō tai. (Japanese) [Manifolds] 86i:58003
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 86h:58002
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53-02 Advanced exposition (research surveys, monographs, etc.)

- Kardan, Jerry L. ★Prescribing the curvature of a Riemannian manifold. 86h:53001
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secondary classifications (53-02)

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53-03 Historical (must also be assigned at least one classification number
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Berger, Marcel H. E. Rauch, géomètre différentiel. [H. E. Rauch, differential geometer]
 86g:53002

(Rauch, Harry E.) See Berger, Marcel, 86g:53002

secondary classifications (53-03)

- (Bénabou, Jean) See Ehresmann, Charles, 86i:01059
 Campos, Alberto Gauss's theory of surfaces. (Spanish) (See 86i:01033)
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53-04 Explicit machine computation and programs (not the theory of
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53-06 Proceedings, conferences, etc.

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53Axx Classical differential geometry

53A04 Curves in Euclidean space

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- Kuruoğlu, N. See Keleş, S., **86k:53004**
- Lisitsa, V. T. See Borisenko, A. A., **86c:53008**
- Robertson, S. A. (with Romero-Fuster, M. C.) The convex hull of a hypersurface. **86j:58013**
- Romero-Fuster, M. C. Generic embeddings, Gauss maps and stratifications. **86a:58013**
- See also Robertson, S. A., **86j:58013**
- Séguin, G. See Sélier, F., **86m:53074**
- Sélier, F. (with Séguin, G.) Plongement de S^2 , $S^2 \times R$, S^3 et $S^3 \times R$ dans V_4 . [Embedding S^2 , $S^2 \times R$, S^3 and $S^3 \times R$ in V_4] **86m:53074**
- Tamishvili, K. M. The connection between embedding equation in surface theory and AKNS soliton equation. (See **86i:35132**)
- Whitt, Lee Codimension two isometric immersions between Euclidean spaces. **86j:53095**

53A10 Minimal surfaces, surfaces with prescribed mean curvature

[See also 49F10, 53C42.]

- Alt, Hans Wilhelm (with Tomi, Friedrich) Regularity and finiteness of solutions to the free boundary problem for minimal surfaces. **86j:53010**
- Brásis, H. (with Coron, Jean-Michel) Convergence of solutions of H -systems or how to blow bubbles. **86g:53007**
- Caffarelli, L. (with Hardt, Robert; Simon, Leon) Minimal surfaces with isolated singularities. **86h:53007**
- Chen, Chi Cheng (with Góes, Célia Contin) Degenerate minimal surfaces in R^4 . **86d:53007**
- Coron, Jean-Michel See Brásis, H., **86g:53007**
- Frankel, Theodore (with Galloway, Gregory J.) Correction to: "Stable minimal surfaces and spatial topology in general relativity" [Math. Z. **181** (1982), no. 3, 395-406; MR **85c:53010**]. **86a:53006**
- Galloway, Gregory J. See Frankel, Theodore, **86a:53006**
- Góes, Célia Contin See Chen, Chi Cheng, **86d:53007**
- Gulliver, R. Tori of prescribed mean curvature and the rotating drop. (French summary) **86b:53006**
- Hacısalıhoğlu, H. Hilmi See Karlıga, B., **86j:53012**
- Hano, Jun-ichi (with Nomizu, Katsumi) Surfaces of revolution with constant mean curvature in Lorentz-Minkowski space. **86e:53003**
- Hardt, Robert See Caffarelli, L. et al., **86h:53007**
- Hoffman, David A. (with Meeks, William H., III) Complete embedded minimal surfaces of finite total curvature. **86j:53011**
- Karlıga, B. (with Hacısalıhoğlu, H. Hilmi) On the minimal hypersurfaces. (Turkish summary) **86j:53012**
- Kawal, Shigeo A theorem of Bernstein type for minimal surfaces in R^4 . **86a:53007**
- Kenmotsu, Katsuei Gauss maps of surfaces with constant mean curvature. **86a:53008**
- Kobayashi, Osamu Maximal surfaces with conelike singularities. **86d:53008**
- Koloso, Miyuki The stability and the Gauss map of minimal surfaces in R^3 . **86k:53011**
- Koufogiorgos, Themis A characterization of a minimal submanifold in R^{n+p} . **86a:53009**
- Lau, Chi Ping The existence and nonexistence of a nonparametric solution to equations of minimal surface type. **86m:53012**
- Li, Peter (with Schoen, Richard; Yau, Shing Tung) On the isoperimetric inequality for minimal surfaces. **86e:53004**
- Matveev, G. On the geometry of minimal distributions. (Russian) **86k:53012**
- McOwen, Robert C. Conformal metrics in R^2 with prescribed Gaussian curvature and positive total curvature. **86h:53008**
- Meeks, William H., III See Hoffman, David A., **86j:53011**
- Nakauchi, Nobumitsu Multiply connected minimal surfaces and the geometric annulus theorem. **86h:53009**
- Nitsche, Johannes C. C. Stationary partitioning of convex bodies. **86j:53013**
- Nomizu, Katsumi See Hano, Jun-ichi, **86e:53003**
- Peng, Jia Gui A remark on minimal surface in R^4 . (See **86m:53002**)
- Quelen, Norbert Plateau's problem in Minkowski space. **86m:53013**
- (with Tomi, Friedrich) Nearly planar Jordan curves spanning a given number of minimal immersions of the disc. **86j:53014**
- Sauvigny, Friedrich Ein Eindeutigkeitsatz für Minimalflächen in R^p mit polygonalem Rand. [A uniqueness theorem for minimal surfaces in R^p with polygonal boundary] **86m:53014**
- Schoen, Richard See Li, Peter et al., **86e:53004**
- Schöffler, Karl-Heinz Jacobifelder zu Flächen konstanter mittlerer Krümmung. [Jacobi fields for surfaces of constant mean curvature] **86c:53005**
- Simon, Leon See Caffarelli, L. et al., **86h:53007**
- Smyth, Brian Stationary minimal surfaces with boundary on a simplex. **86j:53015**
- Tamanoi, I. On the sphericity of liquid droplets. (French summary) **86b:53007**
- Tomi, Friedrich See Alt, Hans Wilhelm, **86j:53010** and Quelen, Norbert, **86j:53014**
- Wente, Henry C. A counterexample in 3-space to a conjecture of H. Hopf. **86m:53015**
- Xavier, Frederico Convex hulls of complete minimal surfaces. **86e:53006**
- Yamashita, Shinji Minimal surfaces with sound or pathological Gauss maps. **86h:53010**
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- Anderson, Sten (with Hyde, S. T.; von Schnering, Hans Georg) The intrinsic curvature of solids. **86k:82062**
- Barbosa, João Lucas Marques (with Delgado, J. A.) Ruled submanifolds of space forms with mean curvature of nonzero constant length. **86g:53006**
- (with Dajczer, M.; Jorge, Luquesio P.) Minimal ruled submanifolds in spaces of constant curvature. **86g:53005**
- Besson, M. The 6π theorem about minimal surfaces. **86f:58033**
- Brásis, H. (with Coron, Jean-Michel) Convergence de solutions de H -systèmes et application aux surfaces à courbure moyenne constante. (English summary) [Convergence of solutions of H -systems and application to surfaces of constant mean curvature] **86d:35044**
- Chern, Shing Shen On surfaces of constant mean curvature in a three-dimensional space of constant curvature. **86b:53058**
- Deformation of surfaces preserving principal curvatures. **86h:53005**
- Coron, Jean-Michel See Brásis, H., **86d:35044**
- Dajczer, M. See Barbosa, João Lucas Marques et al., **86g:53005**
- Delgado, J. A. See Barbosa, João Lucas Marques, **86g:53006**
- Dziuk, Gerhard C^2 -regularity for partially free minimal surfaces. **86h:58037**
- Eells, J. Gauss maps of surfaces. **86j:53090**
- Ferus, Dirk Rotational and nonrotational hypersurfaces with constant mean curvature. **86c:53036**
- Gulliver, R. Necessary conditions for submanifolds and currents with prescribed mean curvature vector. **86i:53032**
- Herit, E. See Neugebauer, G., **86c:83022**
- Hildebrandt, Stefan Some results on minimal surfaces with free boundaries. **86e:49078**

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- Horgan, C. O. A note on the spatial decay of a three-dimensional minimal surface over a semi-infinite cylinder. 86j:53018
- Hsiang, Wu Teh (with Hsiang, Wu-Yi; Sterling, Ivan) On the construction of codimension-two minimal immersions of exotic spheres. 86b:53059
- Hsiang, Wu-Yi See Hsiang, Wu Teh et al., 86b:53059
- Huisken, Gerhard Flow by mean curvature of convex surfaces into spheres. 86j:53008
- Hutchinson, John E. Minimizing curvature—a higher-dimensional analogue of the Plateau problem. (See 86f:00018)
- Hyde, S. T. See Anderson, Sten et al., 86k:53062
- Jorge, Luquesio P. See Barbosa, João Lucas Marques et al., 86g:53065
- Krivoruchko, G. V. See Rosenfeld, B. A., 86g:53013
- Levitt, Gilbert (with Rosenberg, Harold) Symmetry of constant mean curvature hypersurfaces in hyperbolic space. 86h:53063
- Li, An Min An extrinsic rigidity theorem for minimal surfaces in S^3 . 86j:53092
- McOwen, Robert C. On the equation $\Delta u + Ke^{2u} = f$ and prescribed negative curvature in R^2 . 86c:58155
- Morgan, Frank The exterior algebra $\Lambda^k R^n$ and area minimization. 86i:53036
- Neugebauer, G. (with Herlitz, E.) Einstein-Maxwell fields inside and outside rotating sources as minimal surfaces. 86c:83023
- Osserman, R. The minimal surface equation. 86b:58128
- Pinkall, U. Hopf tori in S^3 . 86k:53075
- Rosenberg, Harold See Levitt, Gilbert, 86h:53063
- Rosenfeld, B. A. (with Krivoruchko, G. V.) The method of the theory of vector fields in nonholonomic geometry. (Russian) 86g:53013
- Sauvigny, Friedrich Die zweite Variation von Minimalflächen im R^p mit polygonalem Rand. [The second variation of minimal surfaces in R^p with polygonal boundary] 86k:58026
- von Schnering, Hans Georg See Anderson, Sten et al., 86k:82062
- Schoen, Richard Estimates for stable minimal surfaces in three-dimensional manifolds. 86j:53094
- Schüffler, Karl-Heinz Eine globalanalytische Behandlung des Douglassehen Problems. (English summary) [A global-analytic treatment of the Douglas problem] 86d:58023
- Simon, Leon Survey lectures on minimal submanifolds. 86g:49053
- Solomon, Bruce On the Gauss map of an area-minimizing hypersurface. 86e:49079
- Sterling, Ivan See Hsiang, Wu Teh et al., 86b:53059
- Struwe, Michael Large H -surfaces via the mountain-pass-lemma. 86d:58024
- Takakuwa, Shōichirō On a parameter dependence of solvability of the Dirichlet problem for nonparametric surfaces of prescribed mean curvature. 86d:49060
- Talenti, Giorgio On functions, whose lines of steepest descent bend proportionally to level lines. 86b:35021
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- Equilibrium shapes of surfaces and grain boundaries. (See 86e:73002)
- Thiel, Ursula The index theorem for k -fold connected minimal surfaces. 86j:58031
- Tolkadorf, Peter A parametric variational principle for minimal surfaces of varying topological type. 86g:53037
- On minimal surfaces with free boundaries in given homotopy classes. (French summary) 86k:58027
- Toml, Friedrich (with Tromba, A. J.) On Plateau's problem for minimal surfaces of higher genus in R^3 . 86j:58032
- Tromba, A. J. On the Morse number of embedded and nonembedded minimal immersions spanning wires on the boundary of special bodies in R^3 . 86e:58015
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- Wang, S. P. (with Wei, S. Walter) Bernstein conjecture in hyperbolic geometry. 86m:53076
- Wei, S. Walter See Wang, S. P., 86m:53076
- White, Brian Cabell Generic regularity of unoriented two-dimensional area minimizing surfaces. 86j:49066

53A15 Affine differential geometry

- Kretov, M. V. Special subclasses of differentiable mappings associated with complexes of central nondegenerate hyperquadrics. (Russian) 86k:53013
- Manhart, Friedrich Die Affinminimalrückungsfächen. [The affine minimal translation surfaces with plane translation curves] 86j:53016
- Simon, Udo Hypersurfaces in equiaffine differential geometry and eigenvalue problems. 86e:53005
- secondary classifications (53A15)
- Husty, Manfred Zur Schraubung des Flaggenraumes $J_3^{(2)}$. [The helical motion of the flag space $J_3^{(2)}$] 86g:53014
- Margulis, G. A. Complete affine locally flat manifolds with a free fundamental group. (Russian. English summary) 86b:72019
- Reischer, Corina See Valsman, Isu, 86b:53050
- Sachs, Hans Lineare Komplexbündel im einfach isotropen Raum. (English summary) [Linear complex bundles in a simply isotropic space] 86j:53024
- Schröder, Eberhard M. Affinvariante Strahlreflexion an ebenen Kurven. [Affine-invariant reflection of rays on plane curves] 86a:53002
- Simon, Udo Hypersurfaces in equiaffine differential geometry. 86c:53011
- Valsman, Isu (with Reischer, Corina) Local similarity manifolds. 86b:53050
- Verheyen, Paul (with Verstraeten, L.) Locally symmetric affine hypersurfaces. 86f:53067
- Verstraeten, L. See Verheyen, Paul, 86f:53067
- Zharikova, L. A. Connection in a fibration associated with a congruence of noncentral quadric elements in A_n . (Russian) 86j:53038

53A17 Kinematics

- Anikonov, Yu. E. A criterion for two-dimensional Riemannian spaces of zero curvature. (Russian) 86d:53009
- Bär, Gert Konstruktion Dupinscher Indikatrizen berührender Schraub- und Drehflächen. [Construction of Dupin indicatrices of osculating helical and rotation-symmetric surfaces] 86g:53008
- Borisov, Adriyan V. On the kinematic density of the biplanar group. (Bulgarian. English and Russian summaries) 86f:53007
- Buravtsev, A. I. (with Klepikova, L. S.) Analytic representation of kinematic surfaces. (Russian. English summary) 86g:53009
- Drábek, Karel Weitere äquiforme Analogien zu Geschwindigkeiten der ebenen kongruenten Bewegungen. [More conformal analogies to the velocities of plane congruent motions] 86k:53014
- Kapitanova, M. B. Certain kinematic questions of the motion of an elliptic paraboloid over a plane. (Bulgarian. French and Russian summaries) 86m:53016
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- Pinkall, U. Darboux-Bewegungen im hyperbolischen Raum. [Darboux motions in hyperbolic space] 86d:53011
- Pottmann, Helmut Holditch-Sicheln. [Holditch sickles] 86i:53006
- Röschel, Otto Zur Kinematik der isotropen Ebene. Isotrope Koppelgetriebe höherer Stufe. [On the kinematics of the isotropic plane. Isotropic four-bar motions of higher order] 86i:53007
- Der Satz von Holditch in der isotropen Ebene. (English summary) [The theorem of Holditch in the isotropic plane] 86j:53018
- Kinematische Abbildung der ebenen isotropen Zwangläufe. (English summary) [Kinematic mapping of planar isotropic forced motions] 86i:53008
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- Stachel, Hellmuth Bemerkungen zur sphärischen Kreispunktkurve. [Comments on the spherical vertical curve] 86k:53015
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- (with Kuruoğlu, N.) The pair of generalized ruled surfaces under the homothetic motion in the Euclidean n -space E^n and their sectional curvatures. 86m:53008
- Kuruoğlu, N. See Keleş, S., 86k:53009 and 86m:53008
- Tsagas, Grigorio On the rectilinear congruences whose focal surfaces have the same mean curvature. (Polish summary) 86k:53018

53A20 Projective differential geometry

- Akivis, M. A. Projective generalization of D. F. Egorov's transforms. (Russian) 86b:53008
- Plane hyperdistributions in P^n . (Russian) 86b:53009
- Bochillo, G. P. Distributions on the manifold of all hyperplane elements of an n -dimensional projective space. (Russian) 86j:53020
- D'Andrea, Antonina Families of three-parameter measurable surfaces whose maximal invariance group in the projective space P_3 is the triangular group or one of its subgroups. (Italian) 86i:53009
- Deev, M. E. Multidimensional surfaces carrying conjugate k -nets. (Russian) 86m:53017
- Degen, Wendelin Zur Kennzeichnung von Quadriken unter den Kegelschnittflächen. (English summary) [On the characterization of quadrics among the conic surfaces] 86e:53006
- Dulaseva, T. A. Some properties of double lines of a pair of hyperdistributions. (Russian) 86m:53018
- Kireeva, S. V. Geometry of a mapping, each curve of which is double. (Russian) 86j:53021
- Lasareva, V. B. (with Shelekhov, A. M.) Geometric interpretation of invariant rigging of a point correspondence of three straight lines. (Russian) 86c:53007
- Malakhovskii, V. S. Manifolds of figures in a homogeneous space. (Russian) 86k:53016
- Marcus, Proim On u - or v -complex surfaces. 86f:53008
- On projective spheres and Fubini and Taitze-Wilczyński pseudospheres. 86j:53022
- Mataievskii, S. V. A complex of ruled nondegenerate quadrics in a three-dimensional projective space. (Russian) 86a:53010
- Pavlyuchenko, Yu. V. (with Ryzhkov, V. V.) Bending of point correspondences. ω -systems. (Russian) 86f:53009
- Ryzhkov, V. V. See Pavlyuchenko, Yu. V., 86f:53009
- Shelekhov, A. M. See Lasareva, V. B., 86c:53007
- Stefanova, St. See Tsareva, B., 86m:53019
- Su, Bu Qing ★ The general projective theory of curves. 86i:53010
- Tevsadze, G. N. Conjugate nets with zero Laplace-Darboux invariants. (Russian. English and Georgian summaries) 86j:53023
- Tsareva, B. (with Stefanova, St.) Differential geometry of hyperbolic and elliptic line congruences in a three-dimensional projective space with absolute consisting of two real points and a real straight line through one of them. (Bulgarian. English and Russian summaries) 86m:53019

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- Bolodurin, V. S.** Point correspondences between projective straight lines. (Russian) **86h:53012**
- Chakmasyan, A. V.** Normal connection of a normalized manifold of planes in a projective space. (Russian) **86b:53014**
- Kaiser, V. V.** Nonholonomic ruled geometry as a theory of distributions on a Grassmann manifold. (Russian) **86a:53014**
- Khudenko, V. N.** Connection in a fibration associated with a manifold of multidimensional quadrics. (Russian) **86j:53035**
- Kim, V. B.** An invariant connection induced by a complex of cubics. (Russian) **86j:53037**
- Shevchenko, Yu. I.** Connections in fibrations associated with a space of quadratic elements. (Russian) **86j:53036**
- Tsapenko, V. P.** Affine connections invariantly associated to the hypercomplex $V_n(P, Q)$. (Russian) **86j:53034**
- Wood, Jay A.** Osculation by algebraic hypersurfaces. **86e:14029**

53A25 Differential line geometry

- Abdel-All, N. H.** See Soliman, M. A. et al., **86j:53027**
- Amur, K. S.** (with Chandrashekar, K. S.) On a linear transformation for a line congruence. **86g:53010**
- Chandrashekar, K. S.** See Amur, K. S., **86g:53010**
- Coxeter, H. S. M.** Regular and semiregular polytopes. II. **86g:53011**
- Hagen, Hwlig** Minding-Isometrien bei $(k+1)$ -Regelflächen. (English summary) [Minding isometries of $(k+1)$ -ruled surfaces] **86d:53012**
- Hassanien, S. F.** See Soliman, M. A. et al., **86j:53027**
- Koch, Richard** Über die Mittelfläche einer isotropen Geradenkongruenz. (English summary) [On the middle surface of an isotropic rectilinear congruence] **86b:53010**
- Krames, Josef** Über die in einem Strahlennetz enthaltenen Drehhyperboloide. (English and Serbo-Croatian summaries) [On the hyperboloids of revolution contained in a net of rays] **86m:53020**
- Myagkov, V. I.** Complexes with symmetric arrangement of inflection centers. (Russian) **86a:53011**
- Pankina, N. E.** Ruled 2-surfaces of a Galilean n -space. (Russian) **86k:53017**
- Rangachari, V.** On rectilinear congruence. **86f:53010**
- Read-Derchain, C.** Congruences non W de droites dont les complexes de Waelch ne dépendent que d'un paramètre. (English summary) [Non- W line congruences whose Waelch complexes depend on only one parameter] **86d:53013**
- Röschel, Otto** Ebene Schattengrenzen auf Flächen mit besonderer projektiv-kinematischer Erzeugung. [Plane shadow boundaries on surfaces with special projective-kinematic generation] **86i:53011**
- Sachs, Hans** Neuere Resultate aus der Liniengeometrie des $J_3^{(2)}$. [Recent results from the line geometry of $J_3^{(2)}$] **86f:53011**
- Lineare Komplexbündel im einfach isotropen Raum. (English summary) [Linear complex bundles in a simply isotropic space] **86j:53024**
- Metrische Geometrie in Komplexbündeln vom 1. Haupttyp im Flaggenraum $J_3^{(2)}$. [Metric geometry in complex bundles of the first principal type in the flag space $J_3^{(2)}$] **86j:53025**
- Zur Theorie der zyklischen Komplexbündel des Flaggenraumes $J_3^{(2)}$. [On the theory of the cyclic bundles of complexes of the flag space $J_3^{(2)}$] **86j:53026**
- Soliman, M. A.** (with Abdel-All, N. H.; Hassanien, S. F.) The Klein image of a line complex which admits a stratification of non- W -congruences. **86j:53027**
- Tsagas, Grigorios** On the rectilinear congruences whose focal surfaces have the same mean curvature. (Polish summary) **86k:53018**

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- Brauner, H.** Die erzeugendentreuen geodätischen Abbildungen aus Regelflächen. (English summary) [The generator-preserving geodesic mappings of ruled surfaces] **86i:53003**
- Eveev, V. I.** Geometry of a manifold of elliptic lines in 1S_3 . (Russian) **86k:53019**
- Frank, Hubert** (with Giering, Oswald) Verallgemeinerte Regelflächen im Grossen. II. (English summary) [Generalized ruled surfaces in the large. II] **86i:53005**
- Giering, Oswald** See Frank, Hubert, **86i:53005**
- Hagen, Hans** Minimale Begleitregelflächen von verallgemeinerten Regelflächen. [Minimal associated ruled surfaces of generalized ruled surfaces] **86d:53005**
- Hagen, Hwlig** Klassifikation der verallgemeinerten Regelflächen durch ihre Kommerell-hyperflächen. (English summary) [Classification of generalized ruled surfaces by their Kommerell hypersurfaces] **86e:53002**
- Keles, S.** (with Kuruoğlu, N.) On the pairs of the generalized ruled surface corresponding to each other under the exponential motion in the Euclidean space E^n . **86k:53009**
- (with Kuruoğlu, N.) The pair of generalized ruled surfaces under the homothetic motion in the Euclidean n -space E^n and their sectional curvatures. **86m:53008**
- Kuruoğlu, N.** See Keles, S., **86k:53009** and **86m:53008**
- Marcus, Froim** On u - or v -complex surfaces. **86f:53008**
- Mekero, D. G.** See Stefanova, St. (Not in MR)
- Shul'ga, N. V.** Differential geometry of a ruled surface of a Lobachevskii n -space. (Russian) **86m:53024**
- Stefanova, St.** (with Mekero, D. G.) Some correspondences between two two-parameter systems of two-dimensional linear subspaces in five-dimensional biplanar space of hyperbolic type. (Bulgarian. English and Russian summaries) (Not in MR)
- See also Tsareva, B., **86m:53019**
- Thas, C.** A theory of nondevelopable generalized ruled surfaces in the elliptic space E^n . **86c:53009**
- Tsareva, B.** (with Stefanova, St.) Differential geometry of hyperbolic and elliptic line congruences in a three-dimensional projective space with absolute consisting of two real points and a real straight line through one of them. (Bulgarian. English and Russian summaries) **86m:53019**

53A30 Conformal differential geometry

- Bronshtein, R. F.** On the conformal theory of multidimensional distributions. (Russian) **86m:53021**

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- LeBrun, Claude R.** Twistor CR manifolds and three-dimensional conformal geometry. **86m:53033**
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- Pierschalski, A.** On quasiconformal deformations of manifolds and hypersurfaces. **86c:30039**

53A35 Non-Euclidean differential geometry

- Aminov, Yu. A.** Properties of the Grassmann image of a local immersion of a three-dimensional Lobachevskii space in a five-dimensional Euclidean space. (Russian) **86e:53007**
- Borisenko, A. A.** (with Lisitsa, V. T.) Surfaces with a degenerate spherical image map. (Russian) **86c:53008**
- Burdun, A.** (with Mateev, A.) Geometry of the field of isotropic vectors in three-dimensional pseudo-Euclidean space. (Russian) **86a:53012**
- Epehtein, L. A.** See Kantor, B. E., **86i:53012**
- Epehtein, Charles L.** Orthogonally integrable line fields in H^3 . **86m:53022**
- Eveev, V. I.** Geometry of a manifold of elliptic lines in 1S_3 . (Russian) **86k:53019**
- Gurevich, V. L.** Kinematics of curvature at most K . (Russian) **86f:53012**
- Kantor, B. E.** (with Epehtein, L. A.) Boundedness of the variation of the rotation of a curve on a parametric plane under the condition of boundedness of its variation in a manifold of bounded curvature with a Chebyshev element. (Russian) **86i:53012**
- Kolde, R.** Geometry and classification of two-dimensional distributions on the manifold of isotropic straight lines in 1R_4 . (Russian. English summary) **86b:53011**
- Koshukharova, R. T.** (with Mekero, D. G.) Geometric characterization of a classification of surfaces in the generalized biaxial space $P_4^{1,2}$. (Russian) **86i:53013a**
- (with Mekero, D. G.) Lines on a surface in the generalized biaxial space $P_4^{1,2}$. (Russian) **86i:53013b**
- Krawczyk, Jerzy** Pseudo-Euclidean surfaces in 1E_4 . **86a:53013**
- Krivoruchko, G. V.** See Rosenfeld, B. A., **86g:53013**
- Lisitsa, V. T.** See Borisenko, A. A., **86c:53008**
- Mateev, A.** See Burdun, A., **86a:53012**
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- Palman, Dominik** Drehzykliden des einfach isotropen Raumes. (English and Serbo-Croatian summaries) [Rotational cyclides of the simply isotropic space] **86j:53028**
- Pottmann, Helmut** Über Böschungslinien im dreidimensionalen elliptischen Raum. (English summary) [Curves of constant slope in three-dimensional elliptic space] **86j:53029**
- Rosenfeld, B. A.** (with Vlasova, L. A.; Yukhtina, T. I.) Application of the angle of inclination of a 2-area element in Hermite spaces to the differential geometry of these spaces. (Russian) **86g:53012**
- (with Krivoruchko, G. V.) The method of the theory of vector fields in nonholonomic geometry. (Russian) **86g:53013**
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- Vlasova, L. A.** See Rosenfeld, B. A. et al., **86g:53012**
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- Pankina, N. E.** Ruled 2-surfaces of a Galilean n -space. (Russian) **86k:53017**
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- Husty, Manfred** Zur Schraubung des Flaggenraumes $J_3^{(2)}$. [The helical motion of the flag space $J_3^{(2)}$] **86g:53014**
- Jank, Walther** Über elliptisch und euklidisch abwickelbare Hyperkegel. (English summary) [On elliptically and Euclidean developable hypercones] **86e:53008**
- Kaiser, V. V.** Nonholonomic ruled geometry as a theory of distributions on a Grassmann manifold. (Russian) **86a:53014**
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- Mekero, D. G.** Fundamental points for a one-parameter system of n -dimensional linear subspaces in the even-dimensional generalized biaxial space $P_{2(n+1)}^{n,n+1}$. (Bulgarian. German and Russian summaries) (Not in MR)
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- See also Stefanova, St. (Not in MR)
- Pottmann, Helmut** ★ Nichteuklidische Kreisevolventoiden. (German) [Non-Euclidean evolutooids of a circle] **86j:53030**
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- Sachs, Hans. Klassifikationstheorie der linearen Komplexbüschel des Flaggenraumes $J_3^{(2)}$. (English and Serbo-Croatian summaries) [Classification theory of pencils of linear complexes of the flag space $J_3^{(2)}$] 86f:53014
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- Stefanova, St. (with Mekerov, D. G.) Some correspondences between two two-parameter systems of two-dimensional linear subspaces in five-dimensional biplanar space of hyperbolic type. (Bulgarian. English and Russian summaries) (Not in MR)
- Zolotukhin, Yu. P. Unique determinacy of surfaces with cuts in a space of constant curvature. (Russian) 86a:53015

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- Röschel, Otto. Zur Kinematik der isotropen Ebene. II. (English summary) [On the kinematics of the isotropic plane. II] 86j:53019
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- Vujčić, Veljko A. On the theory of integration of tensor differential equations by the method of the absolute integral. (Russian) 86g:53025
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- Lafontaine, J. Théorie algébrique des spineurs. [Algebraic theory of spinors] (See 86i:53020)
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- Basarab-Horwath, Peter (with Tucker, R. W.) Propagateurs spinoriels et formes différentielles. (English summary) [Spinor propagators and differential forms] 86f:81118
- Benn, I. M. (with Tucker, R. W.) The differential approach to spinors and their symmetries. (Italian and Russian summaries) 86k:81104
- (with Dolan, Brian; Tucker, R. W.) Algebraic spin structures. 86k:81105
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- van den Broek, P. M. Twistor geometry. 86a:32059
- Bugajka, Krystyna. Internal structure of fermions. 86h:81062
- Crawford, J. P. On the algebra of Dirac bispinor densities: factorization and inversion theorems. 86g:81067
- Dalton, Bill. New connection between spinors and geometry. 86d:81029
- Dolan, Brian. Spinors on CP^2 in $d \geq 9$ supergravity. (French summary) 86k:53088
- See also Benn, I. M. et al., 86k:81105
- Finkelstein, Robert J. (with Villante, M.) Fermionic couplings in Kaluza-Klein theories. 86k:81114
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- Furian, P. (with Rączka, R.) A pure spinor nonlinear sigma-type model. 86m:81128
- Hestenes, David (with Sobczyk, Garret) ★ Clifford algebra to geometric calculus. 86g:15012
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- Urani, John R. (with Kutchko, Frank J.) Field equations and the tetrad connection. 86f:81135
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- Aldersley, S. J. (with Horndeski, G. W.; Mess, G.) The construction of concomitants from an almost complex structure. 86a:53037
- Bernard, Daniel. Congruence, contact et repères de Frénet. [Congruence, contact and Frénet frames] 86d:53016
- Burdun, A. (with Mateev, A.) Geometry of the field of isotropic vectors in three-dimensional pseudo-Euclidean space. (Russian) 86a:53012
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- Danilyuk, V. I. Centro-affine concomitants of a quadratic-cubic two-dimensional differential system. (Russian) 86j:34006
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- Mess, G. See Aldersley, S. J. et al., 86a:53037
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53A60 Geometry of webs [See also 14C21, 20N05.]

- Apresyan, Yu. A. A class of three-webs on a four-dimensional manifold and corresponding third-order differential equations. (Russian) 86f:53013
- Goldberg, Vladimir V. An inequality for the 1-rank of a scalar web $SW(d, 2, r)$ and scalar webs of maximum 1-rank. 86f:53014
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- Ivanov, V. G. A generalized parallelism with a hyperdistribution. (Russian) 86b:53012
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- Tsareva, B. On the conformal geometry of three-webs in a two-dimensional Weyl space. (Bulgarian. German and Russian summaries) 86m:53030

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- Bolodurin, V. S. Point correspondences between projective straight lines. (Russian) 86b:53012
- Chebyshova, B. P. Geometry of a hypersurface in an affine isotropic space. (Russian) 86a:53016

- Koch, Richard Kennzeichnungen lokal-Euklidischer 2-Mannigfaltigkeiten durch Paare metrisch gekoppelter Tschebyscheffnetze. (English and Serbo-Croatian summaries) [Characterizations of locally Euclidean 2-manifolds by pairs of metrically coupled Chebyshev nets] **86i:53004**
- Lasareva, V. B. (with Shelekhov, A. M.) Geometric interpretation of invariant rigging of a point correspondence of three straight lines. (Russian) **86c:53007**
- Özkan, M. Asim Über die Flächenmetrik, die eine Dreier-Sechseckswabe aus geodätischen Linien besitzt. (English and Turkish summaries) [On the metric of a surface consisting of a hexagonal three-web formed by geodesics] **86m:53005**
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- Vasil'ev, A. M. Linear differential systems and invariant realizations of differential-geometric structures. (Russian) **86a:58117**

53A99 None of the above, but in this section

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- Kondo, Kazuo On the meaning of the eigen- and local time. Corrigendum: "Dimensional conflict and reconciliation in the macroscopic relativistic and Newtonian physical world" [RAAG Res. Notes No. 181 (1984), 24 pp.]. (Japanese summary) (Not in MR)

53B05 Linear and affine connections

- Chakmasyan, A. V. Affine geometry of a normalized submanifold with a parallel field of normal p -directions. (Russian. English summary) **86a:53017**
- Egorov, A. I. Maximally moving spaces of hyperplane elements of general affine connection. (Russian) **86j:53031**
- Enghis, P. Semisymmetric E -connections. (Romanian. French summary) **86g:53018**
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- Führer Nadj, Djerdji Autoparallel curves of Riemann-Ötsuki spaces. (Serbo-Croatian summary) **86j:53032a**
- Iliev, B. Deviation equation and equivalence principle in spaces with affine connection. **86h:53013**
- Kaczmarek, Lech See Fudali, S. et al., **86f:53015a** and **86f:53015b**
- Kleczek, M. See Fudali, S. et al., **86f:53015a** and **86f:53015b**
- Kosik, N. N. Linear connections on a fibered manifold. (Russian) **86a:53018**
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- Mehdi, Mohamed Formes semi-conservatives et formes récurrentes. (English summary) [Almost-conservative forms and recurrent forms] **86b:53013**
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- Prakash, N. Projective structures in fibered manifolds. **86j:53033**
- Publić, Nevena A new kind of Ötsuki space with a regular metric connection. (Serbo-Croatian summary) **86j:53032b**
- Rahman, Mohammad S. A study of affinely connected spaces with recurrent curvature. **86f:53016**
- Rahmani, N. Relèvement horizontal des champs de tenseurs de type $(1,1)$ au fibré tensoriel de type (p,q) , $E = T_q^p(M)$. [Horizontal lifting of tensor fields of type $(1,1)$ to the tensor bundle of type (p,q) , $E = T_q^p(M)$] **86e:53011**
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- Shadyev, Kh. Infinitesimal homotheties in the tangent bundle of a Riemannian manifold. (Russian) **86f:53017**
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- Tsapanov, V. P. Affine connections invariantly associated to the hypercomplex $V_n(P,Q)$. (Russian) **86j:53034**
- Yablonskaya, N. V. Some classes of almost geodesic mappings of general spaces with affine connection. (Russian) **86a:53020**
- Yafarov, Sh. A. First fractional integrals of equations of geodesic lines of spaces with affine connection. (Russian) **86g:53019**

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- Adamów, Adam On reduced almost geodesic mappings in Riemannian spaces. **86a:53023**
- Chruściel, P. T. On the invariance properties and the Hamiltonian of the unified affine electromagnetism and gravitation theories. (French summary) **86k:83053**
- Igoshin, V. A. See Shapiro, Ya. L. et al., **86e:58069**
- Minčič, Svetislav M. Derivational formulas of a subspace of a generalized Riemannian space. **86h:53023**
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- Pavlyuchenko, Yu. V. (with Ryzhkov, V. V.) Bending of point correspondences. ω -systems. (Russian) **86f:53009**

- Prvanović, Mileva S. The Ötsuki-Norden space. (Russian) **86b:53015**
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- Sharma, Kamalakant On affinely connected generalised 2-recurrent spaces. **86j:53040a**
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- Ślăsarica, Wanda On some invariants of Riemannian manifolds admitting a concircular semisymmetric metric connection. **86h:53020**
- Yakovlev, E. I. See Shapiro, Ya. L. et al., **86e:58069**

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- Chakmasyan, A. V. Normal connection of a normalized manifold of planes in a projective space. (Russian) **86b:53014**
- Khan, K. A. See Singh, Udal Pratap, **86a:53021**
- Khudenko, V. N. Connection in a fibration associated with a manifold of multidimensional quadrics. (Russian) **86j:53035**
- Shevchenko, Yu. I. Connections in fibrations associated with a space of quadratic elements. (Russian) **86j:53036**
- Singh, Udal Pratap (with Khan, K. A.) On projective transformation on projective birecurrent Finsler spaces. **86a:53021**
- Stavre, Petre (with Teodorescu, Ion D.) Sur les transformations projectives de connexions. [Projective transformations of connections] **86m:53031**
- Teodorescu, Ion D. See Stavre, Petre, **86m:53031**

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- Kurbatova, I. N. HP -mappings of H -spaces. (Russian) **86d:53015**

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- Barua, B. (with Ray, Ashok Kumar) Some properties of semisymmetric metric connection in a Riemannian manifold. **86k:53024**
- Enghis, P. T -recurrent quarter-symmetric connections. (Romanian) (See **86j:53002**)
- Gureeva, T. G. See Vishnevskii, V. V., **86k:53025**
- Hö, Tai Yun On curvature tensor fields in nonmetric, non-Riemannian manifolds ($\nabla g \neq 0$, $T \neq 0$). (Korean. English summary) **86f:53018**
- Kim, V. B. An invariant connection induced by a complex of cubics. (Russian) **86j:53037**
- Markovits, Michael J. The local imbedding problem for conformal connections. **86d:53014**
- Nagayama, Haruya A theory of general relativity by general connections. I. **86a:53022**
- Pastore, A. M. Pseudolinear transformation groups of a real analytic manifold. (Italian. English summary) **86h:53015**
- Prvanović, Mileva S. The Ötsuki-Norden space. (Russian) **86b:53015**
- Ray, Ashok Kumar See Barua, B., **86k:53024**
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- Vishnevskii, V. V. (with Gureeva, T. G.) A class of second-order semitangent structures. (Russian) **86k:53025**
- Yano, Kentaro The Hayden connection and its applications. **86g:53020**
- Zharikova, L. A. Connection in a fibration associated with a congruence of noncentral quadratic elements in A_n . (Russian) **86j:53038**

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- Egorov, A. I. Maximally mobile general spaces of paths. (Russian) **86a:53030**
- Gasperini, M. Lie-isotopic lifting of gauge theories. **86b:81085**
- Moór, Arthur Über spezielle Finsler-Ötsukische Räume. [On special Finsler-Ötsuki spaces] **86d:53021**
- Nishioke, Michio Remarks on the coefficients of antisymmetric connection induced by the Lie-isotopic lifting of gauge theory. **86b:81086**
- Ojha, R. H. (with Prasad, Shanker) Semisymmetric metric s -connection in a Sasakian manifold. **86g:53033**
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- Singh, Udal Pratap (with Yadav, P. C.) Frenet's formulae associated with nonlinear connections. **86b:53021**
- Yadav, P. C. See Singh, Udal Pratap, **86b:53021**

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- Adamów, Adam On reduced almost geodesic mappings in Riemannian spaces. **86a:53023**
- Boju, Valentin (with Funar, Louis) Espaces à courbure Stanilov quasi-constante. [Quasiconstant Stanilov curvature spaces] **86a:53024**
- Brinis Udeschini, Elias Bianchi identities considered as equations. (Italian. English summary) **86f:53019**
- Chaki, M. C. (with Kumar, Gouri) On semidecomposable generalized projective 2-recurrent Riemannian spaces. **86k:53026**
- Das, Lovejoy S. K. On integrability conditions of a $F(K, -(-)^{K+1})$ structure satisfying $F^K - (-)^{K+1}F = 0$. **86g:53021**
- Egorov, A. I. Parallel isotropic bivector area in V_4 . (Russian) **86a:53025**
- Erdogan, Mehmet (with Hacısalihoğlu, H. Hilmi) An integral formula and inverse fundamental forms on hypersurfaces in Riemannian manifolds. (Turkish summary) **86j:53039**
- Ferrand, Jacqueline Concircular transformations of Riemannian manifolds. **86k:53027**
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- Gul, Zu Hua The intrinsic conditions of Riemann spaces of class two. (See 86m:53002)
- Gupta, V. C. (with Niwas, Ram) A differentiable manifold with $F(K, -\lambda^2(K-2))$ -structure of rank r . 86h:53017
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- (Antelmann, Horst) See Aleksandrov, P. S., 86f:54001
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- (Seebach, J. A., Jr.) See Guénard, François B., 86m:54001
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- James, I. M. ★ General topology and homotopy theory. 86d:55001
 Lints, R. G. On the foundations of topology. 86k:55022

54-02 Advanced exposition (research surveys, monographs, etc.)

- Fedorchuk, V. V. Some geometric properties of covariant functors. (Russian) 86j:54002

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- Carlson, John W. Lindelöf nearness structures. 86e:54035
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 Nagata, Jun-iti A survey of metrization theory. 86j:54053
 Rus, Ioan A. Generalized contractions. 86d:54074

54-03 Historical (must also be assigned at least one classification number from Section 01)

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- Aull, Charles E. Some genealogies in rings of continuous functions. 86h:01100
 Cameron, Douglas E. The birth of the Stone-Cech compactification. 86g:01035
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 Fletcher, Peter In memory of Jacob Kofner: April 3, 1947–March 23, 1983. 86e:01038
 Herrlich, Horst Graciela Salicrup—her mathematical work. 86g:01050
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 Ostrowski, Alexander ★ Collected mathematical papers. Vol. 3. 86m:01075c
 Pontryagin, L. S. Application of combinatorial topology to compact metric spaces. (Russian) 86k:01037
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 (Sierpiński, Wacław) See Engelking, Ryszard, 86i:01054c
 Tarrés i Freixenet, Juan History of dimension theory. (Catalan) 86m:01078
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54-06 Proceedings, conferences, etc.

- (Aleksandrov, P. S.) See Mappings and functors, 86d:54002
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Conference:

- Geometry and topology ★ Lucrările conferinței naționale de geometrie și topologie. (Romanian) [Proceedings of the national conference on geometry and topology] 86j:53002

- Piatra Neamț ★ Lucrările conferinței naționale de geometrie și topologie. (Romanian) [Proceedings of the national conference on geometry and topology] 86j:53002

Proceedings:

- National conference on geometry and topology ★ Lucrările conferinței naționale de geometrie și topologie. (Romanian) [Proceedings of the national conference on geometry and topology] 86j:53002

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- Fixed point theory ★ Seminar on fixed point theory. 86e:00013

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- Arkhangel'skii, A. V. (with Činčura, J.) On continuous images of almost Tychonoff cubes. **86d:54023**
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- Ohta, Haruto Realcompactness of hyperspaces and extensions of open-closed maps. **86h:54009**
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- Chigogidse, A. Ch. Uncountable powers of the line and of natural numbers, and n -soft mappings. (Russian) **86m:54049**
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- Bowers, Philip L. General position properties satisfied by finite products of dendrites. **86f:54063**
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- Proctor, C. Wayne A characterization of absolutely C^* -smooth continua. **86d:54054**
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- Arkhangel'skii, A. V. Spaces of functions and conditions of completeness type. (Russian) **86e:54017**
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54C40 $C(X)$; algebraic techniques (ideals, etc.) [See also 46J10.]

- Bankston, Paul First order representations of compact Hausdorff spaces. **86e:54021**
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54C45 C - and C^* -imbedding

- Blair, Robert L. A cardinal generalization of z -embedding. **86j:54036**
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- Swardson, Mary Anne Some topological characterizations of the generalized continuum hypothesis. **86g:54055**

54C50 Zero sets, Baire sets and functions [See also 26A21.]

- Fox, Ralph A note on extending zero sets from the real line. (See **86g:54001**)

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54C55 Absolute neighborhood extensor, absolute extensor, absolute neighborhood retract (ANR), absolute retract spaces (general properties) [See also 54F40, 55M15.]

- Ancel, Fredric D. The role of countable dimensionality in the theory of cell-like relations. **86b:54012**
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- Nhu, Nguyen To Orbit spaces of finite groups acting linearly on normed spaces. (Russian summary) **86f:54029**
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54C56 Shape theory [See mainly 55P55, 57N25.]

- Ancel, Fredric D. Proper hereditary shape equivalences preserve property C. **86g:54026**
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- Ancel, Fredric D. The role of countable dimensionality in the theory of cell-like relations. **86b:54012**
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54C60 Set-valued maps [See also 26E25, 28B20.]

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 Filippov, V. V. Luzin's theorem and right-hand sides of differential inclusions. (Russian) **86m:54019**
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- Ancel, Fredric D. The role of countable dimensionality in the theory of cell-like relations. **86b:54012**
 Barabash, S. B. Continuity of an ϵ -subdifferential mapping. (Russian) **86f:90120**
 Bourgin, D. G. (with Nehs, Robert M.) Singular Vietoris-Begle theorems for relations. **86c:55003**
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 De Blasi, F. S. (with Myjak, J.) Continuous selections for weakly Hausdorff lower semicontinuous multifunctions. **86j:54039**
 Ding, Xie Ping Fixed point theorems of random set-valued mappings and their applications. **96a:80091**
 Du'ong Trung Nhân Fuzzy set-valued mappings and fixed point theorems. **86h:54003**
 Fisher, Brian Common fixed points for set-valued mappings. **86k:54064**
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- Allouche, Jean-Paul. Suites infinies à répétitions bornées. [Infinite sequences with bounded repetitions] (See **86b:11003**)
 Alsedà, Lluís (with Llibre, Jaume; Serra, Rafael) Minimal periodic orbits for continuous maps of the interval. **86e:58124**
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 Aoki, Nobuo. Correction to: "Topological stability of solenoidal automorphisms" [Nagoya Math. J. 90 (1983), 119–135; MR 85b:58068]. **86e:58085**
 Bamón, R. (with Malta, I. P.; Pacifico, M. J.; Takens, F.) Rotation intervals of endomorphisms of the circle. **86k:58069**
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 Berend, Daniel. Ergodic semigroups of epimorphisms. **86j:22007**
 Blank, M. L. Ergodic properties of discretizations of dynamic systems. (Russian) **86e:58053**
 Block, Louis (with Hart, D. C.) Stratification of the space of unimodal interval maps. **86a:58080**
 (with Coven, Ethan; Mulvey, Irene; Nitecki, Zbigniew) Homoclinic and nonwandering points for maps of the circle. **86b:58101**
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- Brattelli, Ola (with Elliott, George A.; Robinson, Derek W.) Strong topological transitivity and C^* -dynamical systems. **86i:46065**
- Brunovský, Pavol (with Komorník, Josef) Ergodicity and exactness of the shift on $C[0, \infty]$ and the semiflow of a first-order partial differential equation. **86m:58084**
- Bulgakov, N. G. ★ Знакопостоянные функции в теории устойчивости. (Russian) [Sign-constant functions in stability theory] **86i:34002**
- Bykov, V. V. Nontrivial bifurcation sets of multidimensional dynamical systems. (Russian) **86j:59107**
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- Goodyear, Paul Double enlargements of topological spaces. **86a:54058**
- Živaljević, Rade The notions of w -net and Y -compact space viewed under infinitesimal microscope. **86a:54059**
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- Döpp, Klemens Filterkonvergenz in der Nichtstandard-Analysis bei nichtelementaren Funktionen. [Filter convergence in nonstandard analysis for nonelementary functions] **86e:03062**
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- Revelante, Jean-Pierre Une définition externe de la dimension topologique. (English summary) [An external definition of topological dimension] **86g:54052**
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- Stasheff, James Hilton-Eckmann duality revisited. (See **86d:55002**)

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- James, I. M. ★ General topology and homotopy theory. **86d:55001**

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- Dubrovina, B. A. (with Novikov, S. P.; Fomenko, A. T.) ★ Современная геометрия. (Russian) [Modern geometry] **86c:55001**
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55-06 Proceedings, conferences, etc.

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Algebraic topology ★ Conference on algebraic topology in honor of Peter Hilton. 86d:55002

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55Mxx Classical topics (For the topology of Euclidean spaces and manifolds, see 57N05, 57N10, 57N15.)

55M05 Duality

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55M10 Dimension theory [See also 54F45.]

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55M15 Absolute neighborhood retracts [See also 54C55, 54F40.]

Basmanov, V. N. Covariant functors of finite degrees and connectedness. (Russian) 86m:55002

Mardelid, Sibe ANR-resolutions of triads. 86i:55001

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55M20 Fixed points and coincidences [See also 54H25.]

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 (with Lemaire, Jean-Michel) On the mapping theorem for Lusternik-Schnirelmann category. **86m:55005**
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- Steinlein, Heinrich Borsuk's antipodal theorem and its generalizations and applications: a survey. **86k:55002**

- 55M35 Finite groups of transformations (including Smith theory) [See also 57S17.]

- Weinberger, Shmuel Oliver's formula and Minkowski's theorem. **86j:55004**

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- Dotzel, Ronald M. Splitting semifree finite group actions on homotopy spheres into solid tori. **86e:57040**
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- Machado, Armando Sur le complément d'un ensemble compact de \mathbb{R}^n . (English summary) [On the complement of a compact set in \mathbb{R}^n] (See **86h:00099a**)
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55Nxx Homology and cohomology theories [See also 57Txx.]

- 55N05 Čech types

- Miminošvili, Z. R. Strong homology of spaces. (Russian. English summary) **86m:55006**

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- 55N07 Steenrod-Sitnikov homologies

- Lisitsa, Yu. T. (with Mardešić, Sibe) Strong homology of inverse systems of spaces. I. **86j:55005a**
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- Grosu, Marta On the equivalence of singular simplicial and cubical homology theories on the category of fuzzy spaces. (See **86j:53002**)

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- 55N15 K -theory [See also 19Lxx.] {For algebraic K -theory, see 18F25, 19-XX.}

- Bousfield, A. K. On the homotopy classification of K -theoretic spectra and infinite loop spaces. **86h:55003**
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- Carey, A. L. (with O'Brien, D. M.) Automorphisms of the infinite-dimensional Clifford algebra and the Atiyah-Singer mod 2 index. **86a:58102**
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- 55N20 Generalized (extraordinary) homology and cohomology theories

- Bauer, Friedrich-W. Duality in manifolds. **86h:55005**
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 Placenza, Robert Transfer in generalized prestack cohomology. **86g:55003**
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- Steiner, Richard The relative Mayer-Vietoris sequence. **86i:55007**

- 55N22 Bordism and cobordism theories, formal group laws [See also 14L05, 19L41, 57R75, 57R77, 57R85, 57R90.]

- Boillat, Jacques Foncteurs d'orientation et théories de bordisme itérées. (English summary) [Orientation functors and iterated bordism theories] **86c:55007**
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55N30 Sheaf cohomology [See also 18F20, 32C35, 32L10.]

Bourgin, D. G. (with Neha, Robert M.) Singular Vietoris-Begle theorems for relations. **86c:55003**

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55N35 Other homology theories

Dodson, C. T. J. (with Lok, R.) Hypergraphs, homotopy, and neighbourhood homology. **86h:55006**

King, Henry Churchill Topological invariance of intersection homology without sheaves. **86m:55010**

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MacPherson, Robert (with Vilonen, Kari) Construction élémentaire des faisceaux pervers. (English summary) [Elementary construction of perverse sheaves] **86g:32014**

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55N40 Axioms for homology theory and uniqueness theorems

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Deifs, Hans The homotopy axiom in semialgebraic cohomology. **86h:14016**

55N45 Products and intersections

Prouté, Alain Sur la diagonale d'Alexander-Whitney. (English summary) [On the Alexander-Whitney diagonal] **86a:55009**

55N91 Equivariant homology and cohomology

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Jackowski, Stefan Quillen decomposition for supports of equivariant cohomology with local coefficients. **86f:57038**

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55Pxx Homotopy theory (For simple homotopy type, see 57Q10.)

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55P05 Homotopy extension properties, cofibrations

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55P10 Homotopy equivalences

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55P55 Shape theory [See also 54C56, 54F43, 55Q07.]

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55P60 Localization and completion

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55P62 Rational homotopy theory

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55P91 Equivariant homotopy theory

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- Adams, J. F. Prerequisites (on equivariant stable homotopy) for Carlsson's lecture. 86f:57037
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55Q05 Homotopy groups, general; sets of homotopy classes

- Brown, Ronald (with Salleh, Abdul Razak) A van Kampen theorem for unions on nonconnected spaces. 86b:55012
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55Q07 Shape groups

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55Q10 Stable homotopy groups

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tom Dieck, Tammo Die Picard-Gruppe des Burnside-Ringes. [The Picard group of the Burnside ring] **86d:57023**

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55Q35 Operations in homotopy groups

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55Rxx Fiber spaces and bundles [See also 18F15, 32Lxx, 46M20, 57R20, 57R22, 57R25.]

55R05 Fiber spaces

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Ivan, Ch. Sur le tissu induit. La classification homotopique des tissus. [Induced webs, the homotopy classification of webs] **86e:55027**

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55R12 Transfer

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55R15 Classification

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55R20 Spectral sequences and homology of fiber spaces [See also 55Txx.]

Castellet, Manuel (with Hilton, Peter; Roitberg, Joseph) On pseudo-identities. II. **86a:55020**

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55R25 Sphere bundles and vector space bundles

Gage, Michael E. A note on skew-Hopf fibrations. **86d:55021**

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Maki, Haruo The extendibility and the span of vector bundles over lens spaces. **86g:55021**

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Crabb, M. C. (with Sutherland, W. A.) Function spaces and Hurwitz-Radon numbers. **86d:58014**

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55R35 Classifying spaces of groups and H -spaces

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55R40 Homology of classifying spaces, characteristic classes

[See also 57Txx, 57R20.]

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55R45 Homology and homotopy of BO and BU ; Bott periodicity

[See also 19L99.]

secondary classifications (55R45)

Baker, Andrew A decomposition theorem for certain bipolynomial Hopf algebras. **86h:57044**

55R50 Stable classes of vector space bundles, K -theory [See also 19L99.]

{For algebraic K -theory, see 18F25, 19-XX.}

Kwak, Jin Ho The parallelizability of Dold manifolds. **86g:55025**

secondary classifications (55R50)

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55R55 Fiberings with singularities

secondary classifications (55R55)

Kamishima, Yoshinobu Properly discontinuous actions of subgroups in amenable algebraic groups and its application to affine motions. **86i:57051**

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55R65 Generalizations of fiber spaces and bundles

Kato, Hisao Strongly regular mappings with ANR fibers and shape. **86k:55016**

secondary classifications (55R65)

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Wisemann-Hartmann, Cornelia See Stöcker, Ralph, **86a:57017**

55R91 Equivariant fiber spaces and bundles

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55R99 None of the above, but in this section

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Gómez Ruiz, Francisco Equivariant extensions of differentiable mappings. (Spanish. English summary) (See **86h:00009a**)

Llerena, Irene Localization of fibrations with nilpotent fibre. **86e:55014**

Mathieu, Philippe Sur les groupes d'homotopie. [On homotopy groups] **86k:55011**

McClendon, J. F. Subopen multifunctions and selections. **86f:54034**

Weibel, C. Algebraic K -theory and the Adams ϵ -invariant. **86c:18010**

55Sxx Operations and obstructions

secondary classifications (55Sxx)

Margolis, H. R. ★ Spectra and the Steenrod algebra. **86j:55001**

55S05 Primary cohomology operations

Beitriahvili, T. V. A symmetric Massey product and cohomology operations. (Russian. English and Georgian summaries) **86e:55030**

55S10 Steenrod algebra

Aguadé, J. The realizability of certain algebras as cohomology rings. (See **86h:00009a**)

Fife, James H. Triple products in the Steenrod algebra. **86i:55022**

Lam, S. P. Unstable algebras over the Steenrod algebra. **86f:55003**

Milgram, R. James The Steenrod algebra and its dual for connective K -theory. (See **86b:55001**)

Suarez, Pedro A. A tower of spectra that realizes a chain complex. **86d:55022**

secondary classifications (55S10)

Handel, David Thom modules. **86k:55003**

Kane, Richard Finite H -spaces and the $U(M)$ property. **86m:55015**

Lin, James P. Mod 2 exterior H -spaces. **86j:55009**

Mitchell, Stephen A. Finite complexes with $A(n)$ -free cohomology. **86k:55007**

Randall, Duane On equivariant maps of Stiefel manifolds. **86e:57031**

55S12 Dyer-Lashof operations

- Campbell, H. E. A. Upper triangular invariants. **86i:55023**
 Steiner, Richard Corrigendum: "Homology operations and power series" [Glasgow Math. J. **24** (1983), no. 2, 161-168; MR **85e:55037**]. **86d:55023**

55S15 Symmetric products, cyclic products

secondary classifications (55S15)

- Caruso, J. (with Cohen, F. R.; May, J. P.; Taylor, Laurence R.) James maps, Segal maps, and the Kahn-Priddy theorem. **86g:55007**
 Cohen, F. R. See Caruso, J. et al., **86g:55007**
 May, J. P. See Caruso, J. et al., **86g:55007**
 Taylor, Laurence R. See Caruso, J. et al., **86g:55007**

55S20 Secondary and higher cohomology operations

- Khokhlov, A. V. See Rudyak, Yu. B., **86e:55031**
 Rudyak, Yu. B. (with Khokhlov, A. V.) Higher cohomology operations on Thom classes. (Russian) **86e:55031**

secondary classifications (55S20)

- Goresky, R. Mark Intersection homology operations. **86i:55008**
 Hubbuck, J. R. Secondary operations, K -theory and H -spaces. **86i:55013**
 Lin, James P. On the Hopf algebra structure of the mod 2 cohomology of a finite H -space. **86f:55001**
 Schwartz, Lionel Vecteurs propres de l'opération d'Adams dans $K_0(\mathbb{C}P^\infty/\mathbb{C}P^k, \mathbb{Z}/p)$. (English summary) [Eigenvectors of the Adams operation in $K_0(\mathbb{C}P^\infty/\mathbb{C}P^k, \mathbb{Z}/p)$] **86e:55023**
 Williams, Frank Primitive obstructions in the cohomology of loopspaces. **86g:55008**

55S25 K -theory operations and generalized cohomology operations
[See also 19D99, 19L99.]

- Hoffman, Peter N. (with Mess, G.) Generators for K_0K and K^0K . **86k:55018**
 Mess, G. See Hoffman, Peter N., **86k:55018**

secondary classifications (55S25)

- Milgram, R. James The Steenrod algebra and its dual for connective K -theory. (See **86b:55001**)

55S30 Massey products

secondary classifications (55S30)

- Beĭtrishvili, T. V. A symmetric Massey product and cohomology operations. (Russian. English and Georgian summaries) **86e:55030**
 Fenn, Roger (with Sjerve, Denis) Basic commutators and minimal Massey products. **86i:57005**
 Sjerve, Denis See Fenn, Roger, **86i:57005**
 Tanré, Daniel ★ Homotopie rationnelle: modèles de Chen, Quillen, Sullivan. (French) [Rational homotopy: Chen, Quillen and Sullivan models] **86b:55010**

55S35 Obstruction theory

secondary classifications (55S35)

- Ise, Jorge Obstruction theory and multiparameter Hopf bifurcation. **86k:58023**

55S37 Classification of mappings

- Møller, Jesper Michael On the homology of spaces of sections of complex projective bundles. **86k:55019**

secondary classifications (55S37)

- Morisugi, Kaoru Stable self-maps of the quaternionic (quasi-) projective space. **86g:55010**

55S40 Sectioning fiber spaces and bundles

- Antoniano, E. (with Gitler, S.) Axial maps and cross-sections. **86k:55020**
 Gitler, S. See Antoniano, E., **86k:55020**

secondary classifications (55S40)

- Cohen, R. L. The immersion conjecture for differentiable manifolds. **86m:57030**
 Gómez Ruiz, Francisco Equivariant extensions of differentiable mappings. (Spanish. English summary) (See **86h:00009a**)
 Jänich, Klaus ★ Linienfelder mit Verzweigungsdefekten. (German) [Line fields with branching defects] **86f:58019**
 Kachi, Hideyuki Note on relative Stiefel manifolds. **86m:57042**
 Møller, Jesper Michael On the homology of spaces of sections of complex projective bundles. **86k:55019**
 Önder, Turgut Nonexistence of almost-quaternion substructures on the complex projective space. **86h:57020**
 Seifert, András On detached immersions. **86k:57029**

55S45 Postnikov systems, k -invariants

secondary classifications (55S45)

- Legrand, Claude Sur l'homologie des espaces fonctionnels. (English summary) [Homology of functional spaces] **86a:55022**
 Pham Ngoc An Kyong Orders of k -invariants in the theory of cobordisms with singularities. (Russian) **86g:55005**
 Suarez, Pedro A. A tower of spectra that realizes a chain complex. **86d:55022**

55S99 None of the above, but in this section

- Brown, E. H., Jr. (with Peterson, F. P.) $H^*(MO)$ as an algebra over the Steenrod algebra. (See **86b:55001**)
 Peterson, F. P. See Brown, E. H., Jr., (**86b:55001**)
 Ravenel, Douglas C. Dieudonné modules for abelian Hopf algebras. (See **86b:55001**)

secondary classifications (55S99)

- McGibbon, C. A. (with Neisendorfer, J. A.) On the homotopy groups of a finite-dimensional space. **86b:55015**
 Neisendorfer, J. A. See McGibbon, C. A., **86b:55015**

55Txx Spectral sequences [See also 18G40, 55R20.]

55T05 General

- Barnes, D. W. Spectral sequence constructors in algebra and topology. **86e:55032**

55T10 Serre spectral sequences

secondary classifications (55T10)

- Allday, C. A family of unusual torus group actions. **86e:57041**
 Barnes, D. W. Spectral sequence constructors in algebra and topology. **86e:55032**

55T15 Adams spectral sequences

- Johnson, David Copeland (with Miller, Haynes R.; Wilson, W. Stephen; Zahler, R. S.) Boundary homomorphisms in the generalized Adams spectral sequence and the nontriviality of infinitely many γ_t in stable homotopy. (See **86b:55001**)
 Miller, Haynes R. See Johnson, David Copeland et al., (**86b:55001**)
 Wilson, W. Stephen See Johnson, David Copeland et al., (**86b:55001**)
 Zahler, R. S. See Johnson, David Copeland et al., (**86b:55001**)

secondary classifications (55T15)

- Bruner, Robert A new differential in the Adams spectral sequence. **86e:55016**
 Lin, Wen Hsiung Some elements in the stable homotopy of spheres. **86k:55013**

55T20 Eilenberg-Moore spectral sequences [See also 57T35.]

secondary classifications (55T20)

- Anick, David J. A model of Adams-Hilton type for fiber squares. **86h:55009**
 Tanré, Daniel ★ Homotopie rationnelle: modèles de Chen, Quillen, Sullivan. (French) [Rational homotopy: Chen, Quillen and Sullivan models] **86b:55010**
 Wilson, W. Stephen The Hopf ring for Morava K -theory. **86e:55008**

55T25 Generalized cohomology

secondary classifications (55T25)

- Bourgin, D. G. (with Neha, Robert M.) Singular Vietoris-Begle theorems for relations. **86e:55003**
 Neha, Robert M. See Bourgin, D. G., **86e:55003**

55T99 None of the above, but in this section

- Legrand, Claude Sur l'homologie des espaces fonctionnels. (English summary) [Homology of functional spaces] **86a:55022**
 Pitiş, George Suites spectrales et J -résolutions d'un système projectif. [Spectral sequences and J -resolutions of a projective system] **86j:55012**
 Ravenel, Douglas C. Formal A -modules and the Adams-Novikov spectral sequence. **86a:55023**
 Skordev, Gencho S. Zarelua's spectral sequence. (Russian) **86i:55024**

secondary classifications (55T99)

- Donovan, P. W. Spectral duality for block cohomology. **86d:20013**
 Maison, A. K. The homology of a certain Hopf algebra over $(\text{mod } p)$ Lazard's universal ring. **86i:18017**
 Miller, Haynes R. Massey-Peterson towers and maps from classifying spaces. **86b:55011**

55Uxx Applied homological algebra and category theory
[See also 18Gxx.]

55U10 Semisimplicial complexes

secondary classifications (55U10)

- Dwyer, William G. (with Kan, D. M.) Homotopy theory and simplicial groupoids. **86e:55016**
 Kan, D. M. See Dwyer, William G., **86e:55016**

55U15 Chain complexes

secondary classifications (55U15)

- Katayama, Shin-ichi On homotopy classes of cochain maps. **86k:18004**
 Laitan, Yu. T. (with Mardesić, Sibe) Strong homology of inverse systems of spaces. I. **86j:55005a**
 (with Mardesić, Sibe) Strong homology of inverse systems of spaces. II. **86j:55005b**
 (with Mardesić, Sibe) Strong homology of inverse systems. III. **86j:55005c**
 Mardesić, Sibe See Laitan, Yu. T., **86j:55005a**; **86j:55005b** and **86j:55005c**

55U20 Universal coefficient theorems, Bockstein operator

- Street, Ross Homotopy classification by diagrams of interlocking sequences. **86i:55025**

55U35 Abstract homotopy theory

- Hoff, Georges Aspects de l'homotopie concrète. [Aspects of concrete homotopy] **86k:55021**
 Shitanda, Yoshimi Sur la théorie d'homotopie abstraite. [Abstract homotopy theory] **86a:55024**

secondary classifications (55U35)

- Brown, Ronald Nonabelian cohomology and the homotopy classification of maps. **86c:18012**
 Coproducts of crossed P -modules: applications to second homotopy groups and to the homology of groups. **86c:18017**
 Dwyer, William G. (with Kan, D. M.) An obstruction theory for diagrams of simplicial sets. **86c:55010c**
 (with Kan, D. M.) Singular functors and realization functors. **86c:55010d**
 (with Kan, D. M.) Realizing diagrams in the homotopy category by means of diagrams of simplicial sets. **86c:55010b**
 (with Kan, D. M.) A classification theorem for diagrams of simplicial sets. **86c:55010a**
 (with Hopkins, M. J.; Kan, D. M.) The homotopy theory of cyclic sets. **86m:55014**
 Hastings, Harold M. An idempotent completion functor in homotopy theory. **86d:55012**
 He, Zheng Xu Some results on homotopy theory of modules. (Italian summary) **86a:18017**
 Hopkins, M. J. See Dwyer, William G. et al., **86m:55014**
 Kan, D. M. See Dwyer, William G., **86c:55010a**; **86c:55010b**; **86c:55010c**; **86c:55010d** and **86m:55014**
 Piccinini, Renzo A. H -spaces of self-equivalences of fibrations. **86b:55006**

55U40 Topological categories

- Linta, R. G. On the foundations of topology. **86k:55022**

secondary classifications (55U40)

- Lever, David Precategory objects of toposes. **86h:18001**

55U99 None of the above, but in this section

- Golasinski, M. Limits and colimits in the category of small categories. **86c:55018**

secondary classifications (55U99)

- Brini, Andrea (with Terrusi, Antonio) Homotopically invariant reductions of partially ordered sets. (Italian) **86j:06003**
 Budach, Lothar A lower bound for the number of nodes in a decision tree.
 Kalmbach, Gudrun Ordered sets and homology. **86a:06012**
 Terrusi, Antonio See Brini, Andrea, **86j:06003**

57-XX MANIFOLDS AND CELL COMPLEXES {For complex manifolds, see 32C10.}

57-01 Elementary exposition; textbooks

- Castellet, Manuel The sphere, that unknown entity. (Catalan) **86h:57001**
 Fuks, D. B. (with Rokhlin, V. A.) ★ Beginner's course in topology. **86a:57001**
 (Iacob, Andrei) See Fuks, D. B., **86a:57001**
 Rokhlin, V. A. See Fuks, D. B., **86a:57001**

secondary classifications (57-01)

- Bröcker, Theodor (with tom Dieck, Tammo) ★ Representations of compact Lie groups. **86i:22023**
 tom Dieck, Tammo See Bröcker, Theodor, **86i:22023**
 Matveenko, T. I. See Sinyukov, N. S., **86j:54001**
 Nash, Charles (with Sen, Siddhartha) ★ Topology and geometry for physicists. **86h:58002**
 Sen, Siddhartha See Nash, Charles, **86h:58002**
 Sinyukov, N. S. (with Matveenko, T. I.) ★ Топология. (Russian) [Topology] **86j:54001**
 White, Arthur ★ Graphs, groups and surfaces. **86d:05047**

57-02 Advanced exposition (research surveys, monographs, etc.)

- Pontryagin, L. S. ★ Гладкие многообразия и их применения в теории гомотопий. (Russian) [Smooth manifolds and their applications in homotopy theory] **86i:57001**
 Zieschang, Heiner ★ Finite groups of mapping classes of surfaces. **86g:57001**

secondary classifications (57-02)

- Donaldson, S. K. 4-manifolds with indefinite intersection form. **86m:57037**
 Rassias, George M. New results and research problems in Morse-Smale and Stallings theories. **86k:58001**
 (Solov'ev, Yu. P.) See Switzer, Robert M., **86h:55001**
 Switzer, Robert M. ★ Алгебраическая топология—гомотопии и гомологии. (Russian) [Algebraic topology—homotopy and homology] **86h:55001**

57-03 Historical (must also be assigned at least one classification number from Section 01)

secondary classifications (57-03)

- Pontryagin, L. S. On my papers in topology and topological algebra. (Russian) **86a:01039**
 Application of combinatorial topology to compact metric spaces. (Russian) **86k:01037**
 (Thurston, W.) See Wall, C. T. C., **86j:01035**
 Wall, C. T. C. On the work of W. Thurston. **86j:01035**

57-04 Explicit machine computation and programs (not the theory of computation or programming)

secondary classifications (57-04)

- Koriyama, Akira See Narushima, Hiroshi et al., **86m:06009**
 Minesaki, Toshiya See Narushima, Hiroshi et al., **86m:06009**
 Narushima, Hiroshi (with Minesaki, Toshiya; Koriyama, Akira) A necessary and sufficient condition for a simplicial complex to be an order complex and its checking computer algorithm. **86m:06009**

57-06 Proceedings, conferences, etc.

- (Bass, Hyman) See Smith conjecture, **86i:57002**
 (Fenn, Roger) See Low-dimensional topology, **86m:57002**
 (Harper, John R.) See Combinatorial methods in topology and algebraic geometry, **86g:57002**
 (Levitt, Norman) See Algebraic and geometric topology, **86e:57001**
 (Mandelbaum, Richard) See Combinatorial methods in topology and algebraic geometry, **86g:57002**
 (Morgan, John W.) See Smith conjecture, **86i:57002**
 (Morse, Marston) See Algebraic and differential topology—global differential geometry, **86f:57001**
 (Quinn, Frank) See Algebraic and geometric topology, **86e:57001**
 (Ranicki, A.) See Algebraic and geometric topology, **86e:57001**
 (Rassias, George M.) See Algebraic and differential topology—global differential geometry, **86f:57001**
 (Rolfsen, D.) See Knot theory and manifolds, **86m:57001**
 (Smith, Paul A.) See Smith conjecture, **86i:57002**
 (Stone, A. H.) See Combinatorial methods in topology and algebraic geometry, **86g:57002**
 Algebraic and differential topology—global differential geometry ★ Algebraic and differential topology—global differential geometry. **86f:57001**
 Algebraic and geometric topology ★ Algebraic and geometric topology. **86e:57001**
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 Chelwood Gate ★ Low-dimensional topology. **86m:57002**
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 Combinatorial methods in topology and algebraic geometry ★ Combinatorial methods in topology and algebraic geometry. **86g:57002**
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 Surgery theory ★ Algebraic and geometric topology. **86e:57001**
 Knot theory and manifolds ★ Knot theory and manifolds. **86m:57001**
 Low-dimensional topology ★ Low-dimensional topology. **86m:57002**
 Meeting:
 Canadian Mathematical Society ★ Knot theory and manifolds. **86m:57001**
 New Brunswick, N.J. ★ Algebraic and geometric topology. **86e:57001**
 New York ★ The Smith conjecture. **86i:57002**
 Rochester, N.Y. ★ Combinatorial methods in topology and algebraic geometry. **86g:57002**
 Seminar:
 Topology ★ Low-dimensional topology. **86m:57002**
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 (Piccinini, Renzo A.) See Conference: Algebraic topology, **86d:55002**
 (Sjerve, Denis) See Conference: Algebraic topology, **86d:55002**
 (Smith, Larry) See Algebraic topology, Göttingen, **86m:55001**
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- Göttingen ★ Algebraic topology, Göttingen 1984. 86m:55001
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- Studies in topology ★ Studies in topology. V. (Russian) 86g:54002
- 57Mxx Low-dimensional topology (old 55Axx)**
- 57M05 Fundamental group, presentations, free differential calculus**
- Cochran, T. A topological proof of Stallings' theorem on lower central series of groups. 86c:57002
- Donati, Anna A calculation method of 3-manifold fundamental groups. 86f:57002
- Elkaila, Hassan S. Subnormal subgroups in 3-manifold groups. 86d:57001
- Takahashi, Moto-o Representations of the fundamental groups of 3-manifolds. I. 86j:57001
- Tsai, Chichen M. Nonalgebraic killers of knot groups. 86k:57001
- secondary classifications (57M05)
- Brin, Matthew G. (with Johansson, Klaus; Scott, Peter) Totally peripheral 3-manifolds. 86i:57012
- Cannon, James W. The combinatorial structure of cocompact discrete hyperbolic groups. 86j:20032
- Culler, Marc Finite groups of outer automorphisms of a free group. 86g:20027
- Goldman, William The symplectic nature of fundamental groups of surfaces. 86i:32042
- Goldstein, Richard Z. (with Turner, Edward C.) Automorphisms of free groups and their fixed points. 86b:20031
- Henry, Michel Classe d'homotopie d'une décomposition du groupe fondamental d'une variété de dimension 3. (English summary) [Homotopy class of a splitting of the fundamental group of a 3-manifold] 86g:57011
- Johansson, Klaus See Brin, Matthew G. et al., 86i:57012
- Lee, Youn A geometric method for presenting subgroups of discrete groups. 86b:20032
- Libgober, A. Homotopy groups of the complements to singular hypersurfaces. 86m:14011
- Marcus, Matthew A. All countable groups have cubic presentations. 86c:20031
- Neuwirth, Lee P. • projections of knots. 86j:57003
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- Schroeder, Viktor Finite volume and fundamental group on manifolds of negative curvature. 86b:53046
- Scott, Peter See Brin, Matthew G. et al., 86i:57012
- Stallings, John R. Finite graphs and free groups. (See 86g:57002)
- Surowaki, David B. Covers of simplicial complexes and applications to geometry. 86c:57001
- Torralba, Hugo H. Profinite completions of the fundamental group of the Klein bottle. 86m:20033
- Traldi, Lorenzo Some properties of the determinantal ideals of link modules. 86g:57009
- Turner, Edward C. See Goldstein, Richard Z., 86b:20031
- 57M10 Covering spaces**
- Armstrong, M. A. Lifting homotopies through fixed points. II. 86d:57002
- Cavicchioli, Alberto (with Grasselli, Luigi) Properly discontinuous homography groups and 3-manifolds. (Italian. English summary) 86c:57003
- Grasselli, Luigi See Cavicchioli, Alberto, 86c:57003
- Livingston, Charles Stabilizing surface symmetries. 86b:57002
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- Lee, Kyung Bai (with Raymond, Frank) The role of Seifert fiber spaces in transformation groups. 86j:57015
- Raymond, Frank See Lee, Kyung Bai, 86j:57015
- Scott, Peter Strong annulus and torus theorems and the enclosing property of characteristic submanifolds of 3-manifolds. 86i:57016
- 57M12 Special coverings, e.g. branched**
- Hilden, Hugh M. (with Lozano, María Teresa; Montesinos, José María) The Whitehead link, the Borromean rings and the knot 9_{46} are universal. 86b:57001
- Kases, William On equivalences of branched coverings and their action on homology. 86b:57003
- Lozano, María Teresa See Hilden, Hugh M. et al., 86b:57001
- Montesinos, José María Some aspects of the theory of branched coverings. (Spanish) 86b:57004
- See also Hilden, Hugh M. et al., 86b:57001
- O'Donnell, Daniel Embeddings and immersions of branched covering spaces. 86a:57002
- secondary classifications (57M12)
- Edmonds, Allan L. (with Livingston, Charles) Symmetric representations of knot groups. 86d:57003
- Gabal, David The simple loop conjecture. 86m:57013
- Goodman, Sue (with Tavares, Geovan) Pretzel-fibered links. 86m:57007
- Gordon, C. McA. (with Litherland, R. A.) Incompressible surfaces in branched coverings. (See 86i:57002)
- Kinochita, Shin'ichi On the branch points in the branched coverings of links. 86g:57005
- Lee, Kyung Bai (with Raymond, Frank) The role of Seifert fiber spaces in transformation groups. 86j:57015
- Libgober, A. Homotopy groups of the complements to singular hypersurfaces. 86m:14011
- Litherland, R. A. See Gordon, C. McA., (86i:57002)
- Little, Robert D. Homotopy projective spaces with codimension two stationary sets. 86m:55008
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- Thistlethwaite, Morwen B. Knot tabulations and related topics. 86j:57004
- Zhou, Qing On a problem of Hilden and Montesinos. 86k:57005
- 57M15 Relations with graph theory [See also 05Cxx.]**
- Bursio, Marco (with Demaria, Davide Carlo) The second and third normalization theorems for regular homotopy of finite directed graphs. (Italian summary) 86c:57004
- Demaria, Davide Carlo See Bursio, Marco, 86c:57004
- Grasselli, Luigi A geometric description of "normal" crystallizations. 86i:57003
- de Paris, Gennaro Subdivisions of pseudocomplexes and their representations. (Italian. English summary) 86i:57004
- secondary classifications (57M15)
- Dodson, C. T. J. (with Lok, R.) Hypergraphs, homotopy, and neighbourhood homology. 86b:55006
- Gilbert, John R. (with Hutchinson, Joan P.; Tarjan, Robert Endre) A separator theorem for graphs of bounded genus. 86b:68145
- Goldberg, Charles H. (with West, Douglas B.) Bisection of circle colorings. 86c:05010
- Hutchinson, Joan P. See Gilbert, John R. et al., 86b:68145
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- Machl, Antonio The Riemann-Hurwitz formula for the centralizer of a pair of permutations. 86a:20003
- Miklos, Stanislaw Fixed point property for local expansions on graphs. 86j:54078
- Mohar, Bojan Akempic triangulations with 4 odd vertices. 86g:05036
- Tarjan, Robert Endre See Gilbert, John R. et al., 86b:68145
- Volsone, Gaetano Some remarks on identifying $S^1 \times S^2$. (Italian. English summary) 86f:57019
- West, Douglas B. See Goldberg, Charles H., 86c:05010
- Xie, Li Tong Methods of algebraic topology applied to the theory of graphs and matroids. (Chinese) 86c:05062
- 57M20 Two-dimensional complexes**
- Betke, U. (with Gritsmann, Peter) Polyedrische 2-Mannigfaltigkeiten mit wenigen nicht-konvexen Ecken. (English summary) [Polyhedral 2-manifolds with few nonconvex vertices] 86c:57002
- Dyer, Michael N. Subgroups with projective abelianization and trivial multiplier. 86c:57003
- Eckmann, Beno Sur les groupes fondamentaux des surfaces closes. [On the fundamental groups of closed surfaces] 86f:57003
- Surface groups and Poincaré duality. 86m:57003
- Fenn, Roger (with Sjerpe, Denis) Basic commutators and minimal Massey products. 86i:57005
- Fried, David (with Lee, Ronnie) Realizing group automorphisms. 86m:57004
- Gritsmann, Peter See Betke, U., 86c:57002
- Lee, Ronnie See Fried, David, 86m:57004
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- secondary classifications (57M20)
- Cauty, Robert Sur le plongement des surfaces non orientables dans un produit de deux graphes. (English and Russian summaries) [Embedding nonorientable surfaces into a product of two graphs] 86c:57015
- Sieradski, Allan J. A combinatorial interpretation of the third integral homology of a group. 86a:20058
- 57M25 Knots and links in S^3 [For higher dimensions, see 57Q45.]**
- Ammann, André Sur les nœuds représentables comme tresses à trois brins. II. [Knots representable as braids with three strands. II] (Not in MR)
- Artin, Emil Errata: "Theory of braids" [Bol. Soc. Paran. Mat. (2) 5 (1984), no. 2, 42-54]. (Portuguese) (Not in MR)
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57N15 Topology of E^n , n -manifolds ($4 < n < \infty$)

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57N25 Shapes [See also 54C56, 54F43, 55P55, 55Q07.]

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57N30 Engulfing

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57N35 Imbeddings and immersions

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57N37 Isotopy and pseudo-isotopy

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57N45 Flatness and tameness

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57N50 $S^{n-1} \subset E^n$, Schoenflies problem

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57N60 Cellularity

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57N65 Algebraic topology of manifolds

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57N70 Cobordism and concordance

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57N75 General position and transversality

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57N80 Stratifications

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57N99 None of the above, but in this section

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57Pxx Generalized manifolds [See also 18F15.]

57P10 Poincaré duality spaces

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57P99 None of the above, but in this section

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King, Henry Churchill Topological invariance of intersection homology without sheaves. **86m:55010**

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57Qxx PL-topology

57Q05 The general topology of complexes

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- Björner, Anders Posets, regular CW complexes and Bruhat order. **86e:06002**
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57Q10 Simple homotopy type, Whitehead torsion, Reidemeister-Franz torsion, etc. [See also 19B28.]

Quinn, Frank Geometric algebra. **86m:57023**

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57Q12 Wall finiteness obstruction for CW-complexes

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- The nonexistence of tensor products for free group actions on spheres. **86i:57053**
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57Q15 Triangulating manifolds

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- Batagelj, Vladimir Inductive definition of two restricted classes of triangulations. **86e:05032**
 Brodie, Mark N. (with Cottle, Richard W.) A note on triangulating the 5-cube. **86e:52011**
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57Q20 Cobordism

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57Q25 Comparison of PL-structures: classification, Hauptvermutung

- Dancis, Jerome Triangulated n -manifolds are determined by their $[n/2] + 1$ -skeletons. **86c:57018**
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57Q35 Imbeddings and immersions

- Banchoff, Thomas F. Normal curvatures and Euler classes for polyhedral surfaces in 4-space. **86c:57019**
 Prsytycki, Józef H. Incompressibility of surfaces with four boundary components after Dehn surgery. **86a:57018**

57Q40 Regular neighborhoods

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57Q45 Knots and links (in high dimensions) {For the low-dimensional case, see 57M25.}

- Bayer-Flückiger, Eva Cancellation of hyperbolic ε -Hermitian forms and of simple knots. **86k:57017**
 Bowsey, C. On the homotopy classification of pairs of linked maps of manifolds into a linear space. **86f:57018**
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- Aitchison, I. R. (with Rubinstein, J. H.) Fibered knots and involutions on homotopy spheres. **86h:57014**
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 Hausmann, Jean-Claude (with Weinberger, Shmuel) Caractéristiques d'Euler et groupes fondamentaux des variétés de dimension 4. [Euler characteristics and fundamental groups of 4-manifolds] **86m:57020**
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57Q60 Cobordism and concordance

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- Cochran, T. On an invariant of link cobordism in dimension four. **86e:57021**
 Litherland, R. A. Cobordism of satellite knots. **86k:57003**
 Waldhausen, Friedhelm Algebraic K -theory of spaces. **86m:18011**

57Q65 General position and transversality

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Hodgson, J. P. E. Surgery on Poincaré complexes. **86a:57016**

57Q99 None of the above, but in this section

- Buoncrisiano, Sandro Goresky-MacPherson cohomology in the PL-category. (Italian) **86c:57021**
 Johnson, F. E. A. On the triangulation of smooth fibre bundles. **86a:57020**
 Karp, A. P. (with Kerov, S. V.) Isomorphisms of rings constructed from simplicial schemes. (Russian) **86i:57027**
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 Volzone, Gaetano Some remarks on identifying $S^1 \times S^2$. (Italian. English summary) **86f:57019**

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- Agnes, C. (with Rasetti, Mario) Piecewise-linear-category approach to entanglement. (Italian and Russian summaries) **86j:82046**
 Allgower, E. L. (with Schmidt, Phillip H.) An algorithm for piecewise-linear approximation of an implicitly defined manifold. **86h:65070**
 Altshuler, Amos (with Steinberg, Leon) The complete enumeration of the 4-polytopes and 3-spheres with eight vertices. **86f:52009**
 Beetvina, Mladen Characterizing k -dimensional universal Menger compacta. **86g:54047**
 Bloch, Ethan D. Simplexwise linear near-embeddings of a 2-disk into \mathbb{R}^2 . **86h:57010a**
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 Dugundji, J. A geometrical approach to degree theory and the Leray-Schauder index. **86j:55003**
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- Sato, Hajime On topological Blaschke conjecture. I. Cohomological complex projective spaces. **86c:53025a**
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57Rxx Differential topology (For foundational questions of differentiable manifolds, see **58Axx**; for infinite-dimensional manifolds, see **58Bxx**.)

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- Pontryagin, L. S. ★ Гладкие многообразия и их применения в теории гомотопий. (Russian) [Smooth manifolds and their applications in homotopy theory] **86i:57001**

57R05 Triangulating

secondary classifications (57R05)

- Ellis, G. F. R. See Williams, R. M., **86e:83015**
Verona, Andrei ★ Stratified mappings—structure and triangulability. **86k:58010**
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57R10 Smoothing

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- Gompf, Robert E. Infinite families of Casson handles and topological disks. **86i:57040**
Lashof, Richard (with Taylor, Laurence R.) Smoothing theory and Freedman's work on four-manifolds. **86b:57009**
Taylor, Laurence R. See Lashof, Richard, **86b:57009**

57R12 Smooth approximations

secondary classifications (57R12)

- Tognoli, A. Approximation des variétés différentiables par des variétés analytiques et algébriques. (English and Italian summaries) [Approximating differentiable manifolds by analytic and algebraic manifolds] **86g:32011**

57R15 Specialized structures on manifolds (spin manifolds, frame manifolds, etc.)

- Li, Bang He Parallelizability of algebraic knots and canonical framings. **86m:57026**
Marry, Pierre Variétés spinorielles. [Spinor manifolds] (See **86i:53020**)
Matsumoto, Yukio Topology of torus fibrations. (Japanese) **86k:57021**
Onder, Turgut Nonexistence of almost-quaternion substructures on the complex projective space. **86h:57020**

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- Akbulut, Selman (with King, Henry Churchill) The topology of real algebraic sets. **86d:14016a**
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- Hughes, John F. Another proof that every eversion of the sphere has a quadruple point. **86h:57028**
- Jones, J. D. S. See Cohen, R. L. et al., **86d:57014**
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- Szűcs, András On detached immersions. **86k:57029**
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- Dax, Jean-Pierre Déformation d'une application en une immersion ou en un plongement. (English summary) [Deformation of a mapping into an immersion or an embedding] **86j:57013**
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- Jones, Lowell Anosov diffeomorphisms and expanding immersions. I. **86i:58084**
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57R45 Singularities of differentiable mappings

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- Banchoff, Thomas F. (with Gaffney, Terence; McCrory, Clint) Counting tritangent planes of space curves. **86m:58028a**
- Barros, Manuel (with Montiel, Sebastián; Romero, Alfonso) The topology of indefinite flag manifolds. **86f:57022**
- Bruce, J. W. (with Gibson, C. G.) Distance-genericity for real algebraic hypersurfaces. **86d:58009**
- Motion pictures: an application of singularity theory. **86e:58010b**
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- Dimca, Alexandru Function germs defined on isolated hypersurface singularities. **86a:32027**
- Farber, M. Sh. Mappings into a circle with a minimal number of critical points and multidimensional knots. (Russian) **86i:58023**
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- Kushner, León (with Levine, Harold I.; Porto, Paulo) Mapping three-manifolds into the plane. I. **86j:58011**

- Laudenbach, François Fonctions de Morse sur un tube: élimination de points critiques. (English summary) [Morse functions on a tube: cancellation of critical points] **86g:58020**

- Lê Dũng Tráng (with Teissier, B.) Cycles evanescents, sections planes et conditions de Whitney. II. (English summary) [Vanishing cycles, plane sections and Whitney conditions. II] **86c:32005**
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- McCrory, Clint Massey products in singularity links. **86a:32028**
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- Novikov, S. P. Critical points and level surfaces of multivalued functions. (Russian) **86b:58022**
- Osawa, Tetsuya The numbers of triple tangencies of smooth space curves. **86m:58028b**
- Perron, Bernard Conjugaison topologique des germes de fonctions holomorphes à singularité isolée en dimension trois. (English summary) [Topological conjugation of germs of holomorphic functions with isolated singularity in dimension three] **86j:32018**
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- Shapiro, Ya. L. (with Igoshin, V. A.) A geodesic field with singularities and a cellular manifold. (Russian) **86g:53024**
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57R50 Diffeomorphisms

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- Kreck, M. ★ Bordism of diffeomorphisms and related topics. **86b:57015**
- Laudénbach, François See Hendriks, Harrie, **86i:57038**
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- Salvetti, Mario Diffeomorphisms of manifolds isotopic to the identity. (Italian. English summary) **86i:57039**
- (Stoltzfus, Neal W.) See Kreck, M., **86b:57015**

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- Casson, Andrew (with Long, D. D.) Algorithmic compression of surface automorphisms. **86m:57012**
- Jones, Lowell Anosov diffeomorphisms and expanding immersions. I. **86i:58084**
- Long, D. D. See Casson, Andrew, **86m:57012**
- Mascaró, Francisca Normal subgroups of $Diff^1(R^3)$. **86c:58016**
- Matsumoto, Yukio Diffeomorphism types of elliptic surfaces. **86k:32025**
- McDuff, Dusa Remarks on the homotopy type of groups of symplectic diffeomorphisms. **86i:58021**
- Millson, Mikhail V. M. Some metric spaces of diffeomorphisms. (Russian) **86h:58086**
- Zakharov, V. M. Transformation of partial mappings of Euclidean spaces. (Russian) **86m:53007**

57R52 Isotopy

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- Cerf, Jean Suppression des singularités de codimension plus grande que 1 dans les familles de fonctions différentiables réelles (d'après Kiyoshi Igusa). [Removing singularities of codimension greater than 1 in families of real-valued differentiable functions (following Kiyoshi Igusa)] **86g:58019**
- Scharlemann, Martin Smooth spheres in R^4 with four critical points are standard. **86c:57010**

57R55 Differentiable structures

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- Gompf, Robert E. Infinite families of Casson handles and topological disks. **86i:57040**
- Kreck, M. Some closed 4-manifolds with exotic differentiable structure. **86f:57029**
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- Akbulut, Selman A fake 4-manifold. **86h:57015**
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- Fintushel, Ronald (with Stern, Ronald J.) Another construction of an exotic $S^1 \times S^3 \# S^2 \times S^2$. **86g:57013**
- Quinn, Frank Smooth structures on 4-manifolds. **86f:57015**
- Schultz, Reinhard E. Transformation groups and exotic spheres. **86k:57033**
- Stern, Ronald J. See Fintushel, Ronald, **86g:57013**

57R60 Homotopy spheres, Poincaré conjecture

secondary classifications (57R60)

- Fomenko, A. T. ★ Топологические вариационные задачи. (Russian) [Topological variational problems] **86j:58030**
- Freed, Daniel S. (with Uhlenbeck, Karen K.) ★ Instantons and four-manifolds. **86c:57031**
- Rigas, A. S^3 -bundles and exotic actions. (French summary) **86i:57028**
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- Aseadi, Amir H. Concordance of group actions on spheres. **86i:57052**
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- A new technique for the link slice problem. **86m:57017**
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- Kreck, M. \star Bordism of diffeomorphisms and related topics. **86b:57015**
- Lashof, Richard (with Taylor, Laurence R.) Smoothing theory and Freedman's work on four-manifolds. **86b:57009**
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57R67 Surgery obstructions, Wall groups [See also 18F25, 19G24.]

- Cappell, Sylvain E. (with Shaneson, Julius L.) Torsion in L -groups. **86m:57033**
- Davis, James F. The surgery semicharacteristic. **86a:57027**
- Farrell, F. T. (with Hsiang, W. C.) On Novikov's conjecture for cocompact discrete subgroups of a Lie group. **86c:57032**
- Hsiang, W. C. See Farrell, F. T., **86c:57032**
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- Vogel, Pierre Une nouvelle famille de groupes en L -théorie algébrique. [A new family of groups in algebraic L -theory] **86a:57029**

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- Hambleton, Ian (with Hausmann, Jean-Claude) Acyclic maps and Poincaré spaces. **86c:57017**
- Hausmann, Jean-Claude See Hambleton, Ian, **86c:57017**

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- Farber, M. Sh. Mappings into a circle with a minimal number of critical points and multidimensional knots. (Russian) **86i:58023**
- Hosokawa, Fujitsugu (with Kawauchi, Akio; Nakanishi, Yasutaka; Sakuma, Makoto) Note on critical points of surfaces in 4-space. **86j:57062**
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- Wagner, Bernd Morse theory for distance functions to affine subspaces of Euclidean spaces. **86c:53040**

57R75 O- and SO-cobordism

- Eliashberg, Jehoshua Cobordisme des solutions de relations différentielles. [Cobordism of solutions of differential relations] **86c:57033**
- Goggins, Robert Cobordism of manifolds with strong almost tangent structures. **86b:57018**
- Melvin, Paul 4-dimensional oriented bordism. **86e:57032**

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- Mahowald, Mark See Cohen, R. L. et al., **86d:57014**
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- Young, Virginia R. Unoriented branched coverings arising from group actions. **86f:57040**

57R77 Complex cobordism (U- and SU-cobordism) [See also 55N22.]

- Kamata, Masayoshi On semifree unitary S^1 -manifolds. **86e:57033**
- Mitchell, Stephen A. A proof of the Conner-Floyd conjecture. **86h:57030**
- Nadiradze, R. G. Analogues of Stong manifolds and cobordisms of selfadjoint manifolds. (Russian. English summary) **86f:57031**

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- Liulevicius, Arunas On the birth and death of elements in complex cobordism. (See **86b:55001**)
- Morava, Jack Noetherian localisations of categories of cobordism comodules. **86g:55004**
- Pham Ngoc An Kyong Orders of k -invariants in the theory of cobordisms with singularities. (Russian) **86g:55005**

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- Pedersen, Erik Kjaer K_{-} -invariants of chain complexes. **86g:18008**
- Peng, Xiao Wei On the Morse complex. **86g:58031**

57R85 Equivariant cobordism

- Hara, Tamio On equivariant bordism of $(Z_2)^k$ maps. **86c:57034**
- Khare, S. S. (Γ, Γ') -free bordisms, characteristic numbers and stationary point sets. **86d:57016**
- Finite group action and equivariant bordism. **86e:57034**
- Traczyk, Paweł A splitting principle for homotopy equivalent representations of supersolvable groups. **86m:57035**

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- Kamata, Masayoshi On semifree unitary S^1 -manifolds. **86e:57033**
- Khare, S. S. Compact Lie group action and equivariant bordism. **86f:57034**
- Livingston, Charles Stabilizing surface symmetries. **86h:57002**
- Yahia, Mahgoub Cyclic group actions on Riemann surfaces. **86a:57036**

57R90 Other types of cobordism [See 55N22.]

- Benedetti, Riccardo (with Dedò, Maria) Searching around $H_*^{alg}(-)$. **86c:57035**
- Dedò, Maria See Benedetti, Riccardo, **86c:57035**
- Hasani, Nouredine Cobordisme G -plat. (English summary) [G -flat cobordism] **86c:57035**
- Kahn, Donald W. Differentiable approximations to homotopy resolutions and framed cobordism. **86d:57017**
- Micha, E. Cobordism of (k) -framed manifolds. **86m:57036**
- Ognikyan, A. A. A generalization of framed bordism. (Russian. Armenian summary) **86c:57036**

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- Al-Sabti, George Framing sphere bundles over spheres, the Smith pairing, and three-fold Toda brackets. **86h:55017**
- Casson, Andrew (with Long, D. D.) Algorithmic compression of surface automorphisms. **86m:57012**
- Cochran, T. On an invariant of link cobordism in dimension four. **86e:57021**
- Geba, Kasimierz Homotopy groups of spheres, framed bordism and bifurcation. **86a:58019**
- Giambalvo, V. (with Pengelley, David J.) The homology of $MSpin$. **86a:55007**
- Golubiatnikov, V. P. Integral submanifolds of phase spaces and cohomotopies. (Russian) **86h:58073**
- Hasani, Nouredine Sur le cobordisme G -plat. (English summary) [On G -flat cobordism] **86c:55002**
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57R91 Equivariant algebraic topology of manifolds

- Gómez Ruiz, Francisco A residue formula for characteristic classes. (Spanish. English summary) (See **86g:00012b**)

secondary classifications (57R91)

- Lashof, Richard Equivariant isotopies and submersions. **86i:57037**

57R95 Realizing cycles by submanifolds

- Benedetti, Riccardo (with Dedò, Maria) Counterexamples to representing homology classes by real algebraic subvarieties up to homeomorphism. **86h:57031**
- Dedò, Maria See Benedetti, Riccardo, **86h:57031**
- McDuff, Dusa Examples of simply-connected symplectic non-Kählerian manifolds. **86c:57036**
- Schwartz, Lionel Propriétés de divisibilité des puissances des classes de cohomologie de dimension 4 des variétés à fibré tangent stablement trivial. (English summary)

[Divisibility properties of the powers of 4-dimensional cohomology classes of manifolds with stably trivial tangent bundles] **86d:57018**
Tognoli, A. Une remarque sur les cycles analytiques des groupes de Lie. (Italian summary) [Remark on the analytic cycles of Lie groups] **86c:57037**

secondary classifications (57R95)

Coste, Michel Sous-ensembles algébriques réels de codimension 1. (English summary) [Real algebraic subsets of codimension 1] **86k:14018**

Nakauchi, Nobumitsu Multiply connected minimal surfaces and the geometric annulus theorem. **86h:53009**

Tognoli, A. Some results on real algebraic cycles. **86h:32017**

57R99 None of the above, but in this section

Delfs, Hans (with Knebusch, Manfred) Basic homotopy theory of locally semialgebraic spaces. **86c:57038**

Donaldson, S. K. 4-manifolds with indefinite intersection form. **86m:57037**

Goldman, William (with Hirsch, Morris W.) The radiance obstruction and parallel forms on affine manifolds. **86f:57032**

Hirsch, Morris W. See **Goldman, William**, **86f:57032**

Kharshiladse, A. F. Splittings along systems of submanifolds. (Russian) **86d:57019**

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Ning, Lu Equivalence relations on manifolds. (Romanian. English summary) **86k:57030**

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 (with King, Henry Churchill) A resolution theorem for homology cycles of real algebraic varieties. **86g:14011**

Bökstedt, Marcel The rational homotopy type of $\Omega W^{Diff}(*).$ **86e:18011**

Bombieri, Enrico (with Simon, Leon) On the Gehring link problem. **86g:28015**

Bourguignon, Jean-Pierre Analytical problems arising in geometry: examples from Yang-Mills theory. **86h:58030**

Bowasy, C. On the homotopy classification of pairs of linked maps of manifolds into a linear space. **86f:57018**

Breen, Lawrence (with Ekedahl, Torsten) Construction et propriétés de la sphère schématique. (English summary) [Construction and properties of the schematic sphere] **86k:14016**

Chen, Kuo Tsai On the Bezout theorem. **86a:14002**

Dai, Zong Duo (with Lam, T. Y.) Levels in algebra and topology. **86d:11029**

Donaldson, S. K. Nahm's equations and the classification of monopoles. **86c:58039**

Anti self-dual Yang-Mills connections over complex algebraic surfaces and stable vector bundles. **86h:58038**

Ekedahl, Torsten See **Breen, Lawrence**, **86k:14016**

Evens, Leonard (with Priddy, Stewart B.) The cohomology of the semidihedral group. **86h:20075**

Gillet, Henri Some new Gysin homomorphisms for the Chow homology of varieties. **86h:14004**

Gonzalo, Jesús (with Varela, Fernando) Caractérisation de l'espace projectif P_3 , au moyen d'une forme de contact. (English summary) [Characterization of projective space P_3 by contact forms] **86f:58008**

Hartle, James B. Simplicial minisuperspace. I. General discussion. **86f:83041**

Itoh, Jin-ichi Some considerations on the cut locus of a Riemannian manifold. **86a:53048**

King, Henry Churchill Survey on the topology of real algebraic sets. **86d:14017**

See also **Akbulut, Selman**, **86g:14011**

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 Wagoner, J. B. A p -adic regulator problem in algebraic K -theory and group cohomology. 86b:11081

57T15 Homology and cohomology of homogeneous spaces of Lie groups

Singhof, W. On the semicharacteristics of homogeneous spaces. 86j:57021

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Borel, A. (with Casselman, William) L^2 -cohomology of locally symmetric manifolds of finite volume. 86j:22015

Casselman, William See Borel, A., 86j:22015

57T20 Homotopy groups of topological groups and homogeneous spaces

Furukawa, Yasukuni Homotopy-normality of Lie groups. 86i:57058

Gerbatsevich, V. V. Compact aspherical homogeneous spaces up to a finite covering. 86a:57039

Kachi, Hideyuki Note on relative Stiefel manifolds. 86m:57043

Oshima, Hideaki A homotopy group of the symmetric space $SO(2n)/U(n)$. 86a:57040Singhof, W. The d -invariant of compact nilmanifolds. 86c:57042

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Burghesia, D. (with Fiedorowicz, Z.) Hermitian algebraic K -theory of topological spaces. 86c:18005

Fiedorowicz, Z. See Burghesia, D., 86c:18005

Franjou, Vincent (with Schwartz, Lionel) Hypersurfaces et homotopie stable de U . (English summary) [Hypersurfaces and the stable homotopy of U] 86c:55017Schröder, Herbert On the homotopy type of the regular group of a W^* -algebra. 86b:48118

Schwartz, Lionel See Franjou, Vincent, 86c:55017

57T25 Homology and cohomology of H -spaces

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Catenacci, R. (with Salmistraro, Franco) Multiply connected universes and inequivalent fields. 86c:53054

Lin, James P. On the Hopf algebra structure of the mod 2 cohomology of a finite H -space. 86f:55001

Salmistraro, Franco See Catenacci, R., 86c:53054

57T30 Bar and cobar constructions [See also 18G55, 55Uxx.]

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Meyer, Jean-Pierre Mappings of bar constructions. 86j:18011

Bar and cobar constructions. I. 86j:18010

57T35 Applications of Eilenberg-Moore spectral sequences [See also 55R20, 55T20.]

Smith, Larry The Eilenberg-Moore spectral sequence and the mod 2 cohomology of certain free loop spaces. 86d:57026

57T99 None of the above, but in this section

secondary classifications (57T99)

Aguadé, J. The realizability of certain algebras as cohomology rings. (See 86h:00009a)

Andrianov, A. A. (with Bonora, L.; Pasti, P.) Anomalies, cohomology, and finite-mode regularization in higher dimensions. 86g:81112

Bonora, L. See Andrianov, A. A. et al., 86g:81112

Denlinger, Christopher (with Singhof, W.) The e -invariant and the spectrum of the Laplacian for compact nilmanifolds covered by Heisenberg groups. 86i:58133

Faddeev, L. D. (with Shatahvil, S. L.) Algebraic and Hamiltonian methods in the theory of nonabelian anomalies. (Russian. English summary) 86f:81123

Ferrer Llop, Jose (with Puerta Sales, Fernando) Homology of hypersurfaces in multiply projective spaces. (Spanish. English summary) (See 86h:00009a)

Harer, John The homology of the mapping class group and its connection to surface bundles over surfaces. 86c:57010

Pasti, P. See Andrianov, A. A. et al., 86g:81112

Puerta Sales, Fernando See Ferrer Llop, Jose, (86h:00009a)

Shatahvil, S. L. See Faddeev, L. D., 86f:81123

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58-XX GLOBAL ANALYSIS, ANALYSIS ON MANIFOLDS

[See also 32Cxx, 32Fxx, 46-XX, 47Hxx, 53Cxx; for geometric integration theory, see 49F20, 49F22.]

58-01 Elementary exposition; textbooks

Artigue, Michèle (with Gautheron, Véronique) ★ Systèmes différentiels. (French) [Differential systems] 86i:58001

Gautheron, Véronique See Artigue, Michèle, 86i:58001

Krupka, Demeter (with Musilová, Jana) Calculus of odd base forms on differential manifolds. 86m:58001

Lebedev, N. A. ★ Интегрирование на многообразиях. (Russian) [Integration on manifolds] 86i:58002

Leborgne, Daniel ★ Calcul différentiel et géométrie. (French) [Differential calculus and geometry] 86h:58001

Murakami, Shingo ★ Tayō tai. (Japanese) [Manifolds] 86i:58003

Musilová, Jana See Krupka, Demeter, 86m:58001

Nash, Charles (with Sen, Siddhartha) ★ Topology and geometry for physicists. 86h:58002

Sen, Siddhartha See Nash, Charles, 86h:58002

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Aklon, G. P. See Kantorovich, L. V., 86m:46001

Arnol'd, V. I. ★ Обыкновенные дифференциальные уравнения. (Russian) [Ordinary differential equations] 86i:34001

(Boron, Leo F.) See Zeidler, Eberhard, 86f:49003

(Burns, R. G.) See Dubrovin, B. A. et al., 86m:53001

Deimling, K. ★ Nonlinear functional analysis. 86j:47001

Dubrovin, B. A. (with Fomenko, A. T.; Novikov, S. P.) ★ Modern geometry—methods and applications. Part II. 86m:53001

Fomenko, A. T. See Dubrovin, B. A. et al., 86m:53001

González-Velasco, Enrique A. The product rule for Fréchet derivatives. (Not in MR)

Kantorovich, L. V. (with Aklon, G. P.) ★ Функциональный анализ. (Russian)

[Functional analysis] 86m:46001

Morand, Max ★ Espaces fibrés et structure de la mécanique classique ou quantique.

(French) [Fiber spaces and the structure of classical or quantum mechanics] 86b:70001

Novikov, S. P. See Dubrovin, B. A. et al., 86m:53001

Stern, Ronald J. Gauge theories as a tool for low-dimensional topologists. 86f:57021

Trautman, Andrzej ★ Differential geometry for physicists. 86d:53048

Triebel, Hans ★ Analysis und mathematische Physik. (German) [Analysis and mathematical physics] 86j:00005

Zeidler, Eberhard ★ Nonlinear functional analysis and its applications. III. 86f:49003

58-02 Advanced exposition (research surveys, monographs, etc.)

(Aomoto, Kazuhiko) See Open problems in structure theory of nonlinear integrable differential and difference systems, 86j:58001

Berger, Melvyn S. New ideas in the calculus of variations in the large. 86g:58001

(Connes, Alain) See Takai, Hiroshi, 86c:58002

Ibragimov, N. Kh. ★ Transformation groups applied to mathematical physics. 86c:58001

Manin, Yu. I. Some applications of algebraic geometry. (Russian) 86h:58003

Natsuume, Toshikazu See Takai, Hiroshi, 86c:58002

Nirenberg, Louis The work of Yau Shing-Tung. 86m:58002

Rassias, George M. New results and research problems in Morse-Smale and Stallings theories. 86k:58001

Schmitt, Thomas ★ Super differential geometry. 86m:58003

Takai, Hiroshi (with Natsuume, Toshikazu) A. Connes' noncommutative differential geometry. (Japanese) 86c:58002

(Tajishita, Toru) See Open problems in structure theory of nonlinear integrable differential and difference systems, 86j:58001

(Yau, Shing Tung) See Nirenberg, Louis, 86m:58002

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Open problems in structure theory of nonlinear integrable differential and difference systems ★ Open problems in structure theory of nonlinear integrable differential and difference systems. 86j:58001

Problems:

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(Berdichevskii, V. L.) See Thompson, John M. T., 86j:58015

Berezin, F. A. ★ Введение в алгебру и анализ с антикоммутирующими переменными. (Russian) [Introduction to algebra and analysis with anticommuting variables] 86a:58006

(Brylinski, J.-L.) See Kashiwara, Masaki, 86b:58113

Chaperon, Marc Quelques questions de géométrie symplectique (d'après, entre autres, Poincaré, Arnol'd, Conley et Zehnder). [Some questions in symplectic geometry (after, among others, Poincaré, Arnol'd, Conley and Zehnder)] 86j:58042

(Cvitanović, Predrag) See Universality in chaos, 86f:58044

(Danilov, Yu. A.) See Haken, Hermann, 86m:00024

Dubrovin, B. A. (with Novikov, S. P.; Fomenko, A. T.) ★ Современная геометрия. (Russian) [Modern geometry] 86c:55001

Fomenko, A. T. See Dubrovin, B. A. et al., 86c:55001

Guillemin, Victor (with Sternberg, Shlomo) ★ Symplectic techniques in physics. 86f:58054

Haken, Hermann ★ Синергетика. (Russian) [Synergetics] 86m:00024

Kashiwara, Masaki ★ Systems of microdifferential equations. 86b:58113

(Kirillov, A. A.) See Berezin, F. A., 86a:58006

(Klimontovich, Yu. L.) See Haken, Hermann, 86m:00024

Lauwerier, H. A. Chaos and order. 86b:58063

Lichnerowicz, André Géométrie et physique. [Geometry and physics] 86g:01040

(Lighthill, James) See Thompson, John M. T., 86j:58015

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Newhouse, S. E. Probabilistic ideas in smooth dynamical systems. 86k:58073

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 Thompson, John M. T. ★ Неустойчивости и катастрофы в науке и технике. (Russian) [Instabilities and catastrophes in science and engineering] 86j:58015

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58-03 Historical (must also be assigned at least one classification number from Section 01)

- (Kovalevskaya, S. V.) See Torriani, Hugo H., 86m:58004
 Torriani, Hugo H. Sofia Kovalevskaya, the asymmetric top, and Lie algebras. (Portuguese) 86m:58004

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- (Bénabou, Jean) See Ehresmann, Charles, 86i:01059
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 (Guitart, René) See Ehresmann, Charles, 86i:01059
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 Katz, Victor J. Differential forms—Cartan to de Rham. 86k:01035
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 (Pradines, Jean) See Ehresmann, Charles, 86i:01059
 (Reeb, Georges) See Ehresmann, Charles, 86i:01059
 (Thom, René) See Ehresmann, Charles, 86i:01059
 (Zisman, Michel) See Ehresmann, Charles, 86i:01059

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58-04 Explicit machine computation and programs (not the theory of computation or programming)

- Kempf, James A. See Wood, E. F. et al., 86b:58001
 Mehra, Raman K. See Wood, E. F. et al., 86b:58001
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- Acquistapace, Paolo (with Broglia, Fabrizio) Some calculations about billiards. (Italian) 86d:58064
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 Babenko, K. I. (with Petrovich, V. Yu.) Demonstrative calculations in the problem of existence of the solution of the doubling equation. (Russian) 86f:58112
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 MacKay, R. S. (with Percival, I. C.) Converse KAM: theory and practice. 86i:58051
 Metzler, Wolfgang (with Beau, Wolfgang; Überla, Anton) Anschaulichkeit bei der Modellierung und Simulation dynamischer Systeme. [Visualizability in the modelling and simulation of dynamical systems] 86m:58095
 Percival, I. C. See MacKay, R. S., 86i:58051
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58-06 Proceedings, conferences, etc.

- (Borisovich, Yu. G.) See Application of topology in modern analysis, 86m:58005
 (Claro, F.) See Nonlinear phenomena in physics, 86d:58001
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- (Seade, J. A.) See Colloquium: Dynamical systems, 86m:58006

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- Application of topology in modern analysis ★ Применение топологии в современном анализе. (Russian) [Application of topology in modern analysis] 86m:58005

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- (Thibault, R.) See Iteration theory and its applications, 86g:58080

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- (Zachary, Woodford W.) See Colloquium: Group theoretical methods in physics, 86i:81002

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58Axx General theory of differentiable manifolds

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58A05 Differentiable manifolds, foundations

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Fomina, V. E. ★ Дифференциальная геометрия банаховых многообразий. (Russian) [Differential geometry of Banach manifolds] 86h:58005

Kriegel, Andreas A Cartesian closed extension of the category of smooth Banach manifolds. 86i:58005

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58A07 Real-analytic and Nash manifolds [See also 32C05.]

Efroymsen, Gustave Research announcement on extending Nash functions off singular curves. 86i:58006

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King, Henry Churchill See Akbulut, Selman. 86d:14016a; 86d:14016b and 86g:14011

Orro, Patrice (with Trotman, David) Sur les fibres de Nash de surfaces à singularités isolées. (English summary) [On the Nash fibres of surfaces with isolated singularities] 86d:58003

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58A10 Differential forms

Amores, A. M. A proof of Darboux's theorem. (Spanish. English summary) 86k:58002

Arens, Richard The dynamic differential forms of the Klein-Gordon field and the conformal group. 86c:58001

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 Seda, Anthony Karel On the categories $\text{Sp}(X)$ and $\text{Ban}(X)$. II. (French summary) **86h:58012**

secondary classifications (58B05)

- Drezet, J.-M. Cohomologie du groupe de jauge. [Cohomology of the gauge group] (See **86m:14007**)
 Lu, Wen Zhao On the homotopy type of a Fréchet space. (Chinese. English summary) **86c:58024**
 McClendon, J. F. Subopen multifunctions and selections. **86f:54034**
 Mirzakhanyan, È. A. Some properties of infinite-dimensional homotopy groups of subsets of a Hilbert space. (Russian. Armenian summary) **86e:55022**
 Sakai, Katsuro On R^∞ -manifolds and Q^∞ -manifolds. **86a:57014**
 Vo Thanh Liem On infinite deficiency in R^∞ -manifolds. **86j:57008**

58B10 Differentiability questions

- Andersson, Lars Best approximations from Hilbert submanifolds. **86m:58022**
 Salvitti, Reinaldo Abstract Frobenius theorem—global formulation. Applications to Lie groups. **86h:58013**

secondary classifications (58B10)

- Catenacci, R. (with Reina, C.; Teofilatto, Paolo) On the body of supermanifolds. **86i:58010**
 Kas, M. P. On some properties of linear pseudotopologies. (See **86f:54003**)
 Margalef Roig, Juan (with Outerelo Domínguez, Enrique) A Whitney extension theorem in infinite dimension and class p . (Spanish) **86i:58015**
 Outerelo Domínguez, Enrique See Margalef Roig, Juan, **86i:58015**
 Reina, C. See Catenacci, R. et al., **86i:58010**
 Teofilatto, Paolo See Catenacci, R. et al., **86i:58010**

58B12 Questions of holomorphy [See also 32-XX, 46G20.]

secondary classifications (58B12)

- Chae, Soo Bong ★ Holomorphy and calculus in normed spaces. **86j:46044**
 Colombeau, J.-F. ★ New generalized functions and multiplication of distributions. **86c:46042**
 Fujimoto, Yoshihisa (with Noumi, Masatoshi) Vanishing of the cohomology groups in the infinite direct sum $\sum C$. **86a:46049**
 Maset, Pierre ★ Analytic sets in locally convex spaces. **86i:32012**
 Noumi, Masatoshi See Fujimoto, Yoshihisa, **86a:46049**
 (Taylor, Angus E.) See Chae, Soo Bong, **86j:46044**

58B15 Fredholm structures [See also 47A53.]

- Borisovich, Yu. G. Solvability of nonlinear equations with Fredholm operators. (Russian) **86g:58007**
 Connes, Alain (with Karoubi, Max) Caractère multiplicatif d'un module de Fredholm. (English summary) [Multiplicative character of a Fredholm module] **86g:58008**
 Karoubi, Max See Connes, Alain, **86g:58008**

secondary classifications (58B15)

- Albrecht, Ernst (with Vasilescu, F.-H.) Semi-Fredholm complexes. **86i:47001**

- Carey, A. L. (with O'Brien, D. M.) Automorphisms of the infinite-dimensional Clifford algebra and the Atiyah-Singer mod 2 index. **86a:58102**
 Cuellar, Jorge (with Dynin, Alexander; Dynin, Svetlana) Fredholm operator families. II. **86m:47014**
 Dynin, Alexander See Cuellar, Jorge et al., **86m:47014**
 Dynin, Svetlana See Cuellar, Jorge et al., **86m:47014**
 Gęba, Kazimierz (with Granas, Andrzej; Kaczyński, Tomasz; Krawcewicz, Wiesław) Homotopie et équations non linéaires dans les espaces de Banach. (English summary) [Homotopy and nonlinear equations in Banach spaces] **86h:47088**
 Granas, Andrzej See Gęba, Kazimierz et al., **86h:47088**
 Kaczyński, Tomasz See Gęba, Kazimierz et al., **86h:47088**
 Khimshiashvili, G. N. The topology of invertible singular integral operators. (Russian. English and Georgian summaries) **86b:47065**
 Krawcewicz, Wiesław See Gęba, Kazimierz et al., **86h:47088**
 O'Brien, D. M. See Carey, A. L., **86a:58102**
 Tromba, A. J. Degree theory on oriented infinite-dimensional varieties and the Morse number of minimal surfaces spanning a curve in R^n . **86b:58025**
 Vasilescu, F.-H. See Albrecht, Ernst, **86i:47001**

58B20 Riemannian, Finsler and other geometric structures [See also 53C20, 53C60.]

- Andersson, Lars ★ The Bonnet-Myers theorem is true for Riemannian Hilbert manifolds. **86i:58012**
 ★ Riemannian Hilbert manifolds with bounded curvature. **86i:58013**

secondary classifications (58B20)

- Fomin, V. E. ★ Дифференциальная геометрия банаховых многообразий. (Russian) [Differential geometry of Banach manifolds] **86h:58005**
 Guran, I. I. (with Zarichnyi, M. M.) The Whitney topology and box products. (Russian. English summary) **86i:58022**
 Vagner, V. V. Holomorphic partial mappings of Banach modules. (Russian) **86c:58005**
 Zarichnyi, M. M. See Guran, I. I., **86i:58022**

58B25 Group structures and generalizations on infinite-dimensional manifolds [See also 22E65, 58D05.]

- Cieślak, Waldemar (with Kieres, Andrzej) On a complemented group of the isotropy group. (Russian and Polish summaries) **86b:58008**
 Kieres, Andrzej See Cieślak, Waldemar, **86b:58008**
 Kobayashi, Osamu (with Yoshioka, Akira; Maeda, Yoshiaki; Omori, Hideki) The theory of infinite-dimensional Lie groups and its applications. **86g:58009**
 Maeda, Yoshiaki See Kobayashi, Osamu et al., **86g:58009**
 Kobayashi, Osamu See Kobayashi, Osamu et al., **86g:58009**
 Yoshioka, Akira See Kobayashi, Osamu et al., **86g:58009**

secondary classifications (58B25)

- Galshun, I. V. Asymptotic properties of linear actions of a Banach space. (Russian. English summary) **86k:47004**
 Gramsch, Bernhard Relative Inversion in der Störungstheorie von Operatoren und Ψ -Algebren. [Relative inversions in perturbation theory of operators and Ψ -algebras] **86j:47065**
 Schmidt, B. G. The Geroch group is a Banach Lie group. (See **86j:83017**)

58Cxx Calculus on manifolds; nonlinear operators [See also 47Hxx.]

secondary classifications (58Cxx)

- Deimling, K. ★ Nonlinear functional analysis. **86j:47001**

58C05 Real-valued functions

- Łojasiewicz, Stanisław, Jr. Sur les trajectoires du gradient d'une fonction analytique. [Trajectories of the gradient of an analytic function] **86m:58023**
 Machado, Armando Sur les ensembles invariants par la coulée d'un champ de vecteurs. (English summary) [Sets invariant under the flow of a vector field] (See **86h:00009a**)
 Rendi, B. See Rendi, Dorina, **86a:58009**
 Rendi, Dorina (with Rendi, B.) Derivations of functions algebras with singularities at the point. **86a:58009**
 Taubes, Clifford Henry On the Yang-Mills-Higgs equations. **86e:58009**

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- Daneš, J. On the radius of a set in a Hilbert space. **86d:46021**
 Sawyers, Kenneth A global description of the roots of equations containing two arbitrary coefficients. (Arabic summary) **86c:65041**
 Scovel, James C. A simple intuitive proof of a theorem in degree theory for gradient mappings. **86g:55001**
 Sharko, V. V. Minimal Morse functions. (Russian) **86i:58025**
 Zuppa, Carlos Bifurcations imparfaites de type potentiel et D -équivalences de déformations des fonctions. [Imperfect bifurcations of potential type and D -equivalences of deformations of functions] **86i:58028**

58C06 Set valued and function-space valued mappings

- Levchuk, O. V. Linear selectors of the subdifferential mapping of locally Lipschitz functions. (Russian) **86g:58010**
 Shapkin, I. V. Extremal structure of the support set of a fan. (Russian) **86d:58005**
 Sillin, D. B. Subdifferentials of convex functions, and integrals of multivalued mappings. (Russian) **86b:58009**

secondary classifications (58C07)

- Morel, Jean-Michel (with Steinlein, Heinrich) On a problem of Nirenberg concerning expanding maps. **86b:47116**
 Steinlein, Heinrich See Morel, Jean-Michel, **86b:47116**
 Tsukada, Makoto Convergence of best approximations in a smooth Banach space. **86a:41034**

58C07 Continuity properties of mappings

secondary classifications (58C07)

- Andersson, Lars Best approximations from Hilbert submanifolds. **86m:58022**
 Lal, Han Ch'ing Conjugate operators and subdifferentials for convex operators in ordered vector space. **86a:58010**

58C10 Holomorphic maps [See also 32-XX.]

- Onculescu, Ion Analytical systems of partial Fréchet derivatives on fixed directions, in Banach spaces. **86k:58012**
 Vagner, V. V. Holomorphic partial mappings of Banach modules. (Russian) **86c:58005**

secondary classifications (58C10)

- Chao, Soo Bong ★ Holomorphy and calculus in normed spaces. **86j:46044**
 Colombeau, J.-F. ★ New generalized functions and multiplication of distributions. **86c:46043**
 Li, Tien Yien (with Mallet-Paret, John; Yorke, James A.) Regularity results for real analytic homotopies. **86f:90131**
 Mallet-Paret, John See Li, Tien Yien et al., **86f:90131**
 (Taylor, Angus E.) See Chao, Soo Bong, **86j:46044**
 Włodarczyk, Kazimiera Iterations of holomorphic maps of infinite-dimensional homogeneous domains. **86i:46049**
 Yorke, James A. See Li, Tien Yien et al., **86f:90131**

58C15 Implicit function theorems; global Newton methods

- Bressan, Alberto High order approximation of implicitly defined maps. **86d:58006**
 Ichiraku, Shigao A note on global implicit function theorems. **86k:58013**
 Krejčí, Pavel Hard implicit function theorem and small periodic solutions to partial differential equations. **86h:58014**
 Lin, You Ming See Wang, De Ren, **86f:58015**
 Massabó, L. (with Pejašowicz, J.) On the connectivity properties of the solution set of parametrized families of compact vector fields. **86d:58007**
 Pejašowicz, J. See Massabó, L., **86d:58007**
 Ray, William O. A rapidly convergent iteration method and Gâteaux differentiable operators. **86h:58015**
 Sadyrkhanov, R. S. Surjectivity, removal of the set of singularities and global homeomorphism of mappings. (Russian) **86g:58011**
 Schmid, Rudolf The inverse function theorem of Nash and Moser for the Γ -differentiability. **86i:58014**
 Wang, De Ren (with Lin, You Ming) On the convergence of the Newton-Moser type method. (Chinese. English summary) **86f:58015**

secondary classifications (58C15)

- Barbançon, G. (with Raïs, Mustapha) Sur le théorème de Hilbert différentiable pour les groupes linéaires finis (d'après E. Noether). [On the differentiable Hilbert theorem for finite linear groups (following E. Noether)] **86b:58010**
 Batauren, S. On the continuity of the implicit mapping. (Russian and Polish summaries) **86a:49025**
 Dancer, E. N. Counterexamples to some conjectures on the number of solutions of nonlinear equations. **86j:35056**
 Denisov, D. V. (with Karmanov, V. G.; Tret'yakov, A. A.) The accelerated Newton method for solving functional equations. (Russian) **86h:65083**
 DeTurck, Dennis M. (with Yang, Deane) Existence of elastic deformations with prescribed principal strains and triply orthogonal systems. **86b:73014**
 Fabian, M. Lipschitz smooth points of convex functions and isomorphic characterizations of Hilbert spaces. **86j:46017**
 Jerome, Joseph W. An adaptive Newton algorithm based on numerical inversion: regularization as postconditioner. **86j:65061**
 Karmanov, V. G. See Denisov, D. V. et al., **86h:65083**
 Michor, Peter W. Applications of Hamilton's inverse function theorem to manifolds of mappings. **86k:58016**
 Morel, Igor A note on Newton type iterative methods. (German summary) **86a:65052**
 Pham Kỳ Anh On the Seidel-Newton method for solving quasilinear operator equations. **86a:65053**
 Potra, F.-A. (with Pták, Vlastimil) ★ Nondiscrete induction and iterative processes. **86i:65003**
 On an iterative algorithm of order 1.839... for solving nonlinear operator equations. **86j:47068**
 Pták, Vlastimil See Potra, F.-A., **86i:65003**
 Rabinowitz, Paul H. A curious singular perturbation problem. (See **86f:00016**)
 Raïs, Mustapha See Barbançon, G., **86b:58010**
 Ransford, T. J. Open mapping, inversion and implicit function theorems for analytic multivalued functions. **86d:30029**
 Ray, William O. (with Walker, Anita M.) Perturbations of normally solvable nonlinear operators. I. **86k:47051**
 Sánchez-Fernández, C. Transcendental equations with fine singularities. (Spanish. English summary) **86f:46060**
 Sandberg, Irwin W. Series expansions for nonlinear systems. **86b:93015**
 Nonlocal input-output expansions. **86b:93016**
 Tret'yakov, A. A. See Denisov, D. V. et al., **86h:65083**

- Trofimov, E. I. Implicit functions in stochastic analysis. I. (Russian) **86m:60141**
 Voloshin, S. A. Stability of implicit schemes. (Russian) **86h:65140**
 Walker, Anita M. See Ray, William O., **86k:47051**
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 Yoshino, Masafumi An application of generalized implicit function theorem to Goursat problems for nonlinear Leray-Volevich systems. **86j:35007**

58C20 Differentiation theory (Gâteaux, Fréchet, etc.) [See also 26Exx, 46Gxx.]

- Averbukh, V. I. The Asplund-Rockafellar-Gregory theorem and pseudotopologies. (See **86f:54003**)
 Correa, Rafael (with Seeger, Alberto) Directional derivatives in minimax problems. **86g:58012**
 Efimova, E. I. (with Uglanov, A. V.) Formulas of vector analysis in a Banach space. (Russian) **86c:58006**
 Kusraev, A. G. (with Kutateladze, S. S.) ★ Субдифференциальное исчисление. (Russian) [Subdifferential calculus] **86g:58013**
 Abstract disintegration in Kantorovich spaces. (Russian) **86m:58024**
 Kutateladze, S. S. See Kusraev, A. G., **86g:58013**
 Lal, Han Ch'ing Conjugate operators and subdifferentials for convex operators in ordered vector space. **86a:58010**
 Meisner, Detlef Differentiability of polyhedral-valued mappings. (See **86g:90058**)
 Michor, Peter W. A convenient setting for differential geometry and global analysis. **86g:58014a**
 A convenient setting for differential geometry and global analysis. II. (French summary) **86g:58014b**
 Németh, A. B. Sequential regularity and the directional differentiability of convex operators are equivalent. **86h:58016**
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 Szeptycki, P. Vector bundles on sub-Cartesian spaces. **86f:58016**
 Uglanov, A. V. See Efimova, E. I., **86c:58006**

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- Averbukh, V. I. Pseudotopologizers and polylinear mappings. (Russian) **86m:46041**
 Correa, Rafael (with Seeger, Alberto) Directional derivative of a minimax function. **86g:90087**
 Ekeland, Ivar (with Turnbull, Thomas) ★ Infinite-dimensional optimization and convexity. **86i:49001**
 Fonte, G. On the weak semidifferential calculus: a reply to J. Pian and C. S. Sharma. **86m:46042b**
 Guselnov, Kh. G. (with Subbotin, A. I.; Ushakov, V. N.) Derivatives for multivalued mappings with applications to game-theoretical problems of control. (Russian summary) **86k:90159**
 Jouak, M. (with Thibault, L.) Monotonie généralisée et sousdifférentiels de fonctions convexes vectorielles. (English summary) [Generalized monotonicity and subdifferentials of convex vector functions] **86j:90115**
 Kaz, M. P. On some properties of linear pseudotopologies. (See **86f:54003**)
 Kriegl, Andreas A Cartesian closed extension of the category of smooth Banach manifolds. **86i:58005**
 A convenient setting of differential calculus in locally convex spaces. **86j:46039**
 Kruger, A. Ya. Generalized differentials of nonsmooth functions and necessary conditions for an extremum. (Russian) **86j:49038**
 Levchuk, O. V. Linear selectors of the subdifferential mapping of locally Lipschitz functions. (Russian) **86g:58010**
 Mordukhovich, B. Sh. Nonsmooth analysis with nonconvex generalized differentials and conjugate mappings. (Russian. English summary) **86c:49018**
 Onculescu, Ion Analytical systems of partial Fréchet derivatives on fixed directions, in Banach spaces. **86k:58012**
 Outrata, J. V. Minimization of nonsmooth nonregular functions: application to discrete-time optimal control problems. **86g:49022**
 Pedraza González, Juan (with Puebla Sánchez, Mariano) The Stokes theorem. (Spanish. English summary) **86k:58003**
 Pian, J. (with Sharma, C. S.) The weak semidifferentiability in quantum mechanics. **86m:46042a**
 Puebla Sánchez, Mariano See Pedraza González, Juan, **86k:58003**
 Schechter, Martin Differentiation in abstract spaces. **86g:46062**
 Schmid, Rudolf The inverse function theorem of Nash and Moser for the Γ -differentiability. **86i:58014**
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 Stegall, Charles Gâteaux differentiation of functions on a certain class of Banach spaces. **86a:46045**
 Subbotin, A. I. See Guselnov, Kh. G. et al., **86k:90159**
 Sullágyi, T. A characterisation of complete metric spaces and other remarks on I. Ekeland's theorem. **86i:49021**
 Thibault, L. Lipschitz continuity of V-subdifferentials of convex operators. **86k:90149**
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 Turinici, Mihai Metric segments and mean value theorems. **86k:26021**
 Turnbull, Thomas See Ekeland, Ivar, **86i:49001**
 Tynyanskii, N. T. (with Zhidkov, Yu. N.; Sokol, V. A.) Operations on saddle functions. (Russian) **86j:49039**
 ★ Седловые функции. (Russian) [Saddle functions] **86m:90178**
 Ushakov, V. N. See Guselnov, Kh. G. et al., **86k:90159**
 Watkins, G. G. Clarke's tangent vectors as tangents to Lipschitz continuous curves. **86i:90099**
 Zhidkov, Yu. N. See Tynyanskii, N. T. et al., **86j:49039**

58C25 Differentiable maps

- Ball, J. M.** Differentiability properties of symmetric and isotropic functions. **86g:58015**
- Barbançon, G.** (with Rais, Mustapha) Sur le théorème de Hilbert différentiable pour les groupes linéaires finis (d'après E. Noether). [On the differentiable Hilbert theorem for finite linear groups (following E. Noether)] **86b:58010**
- Blot, Joël** Le théorème du rang en dimension infinie. (English summary) [The rank theorem in infinite dimension] **86m:58025**
- Cragolini, Paolo** (with Milani, Andrea) Topologies of deformations. (Italian. English summary) **86b:58011**
- Dymarskii, Ya. M.** A method of extension of solutions with respect to a parameter. (Russian) **86g:58016**
- Margalef Roig, Juan** (with Outerelo Domínguez, Enrique) A Whitney extension theorem in infinite dimension and class p . (Spanish) **86i:58015**
- Milani, Andrea** See Cragolini, Paolo, **86b:58011**
- Outerelo Domínguez, Enrique** See Margalef Roig, Juan, **86i:58015**
- du Plessis, Andrew** On mappings of finite codimension. **86d:58008**
- Prasad, P. Krishna** Algebras of differentiable functions and algebras of Lipschitz functions. **86h:58017**
- Rais, Mustapha** See Barbançon, G., **86b:58010**
- Rendi, Dorina** Special tangent bundles and differentiable maps. (Romanian summary) **86i:58016**
- Wachta, Krystyna** Prolongation des fonctions C^∞ . (English and Russian summaries) [Extension of C^∞ functions] **86c:58007**
- Yemdin, Y.** The geometry of critical and near-critical values of differentiable mappings. **86f:58017**

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- Antonyuk, V. A.** (with Bul'ygina, N. V.; Pyt'ev, Yu. P.) Methods of morphological analysis in a problem of distinguishing objects. (Russian) (See **86c:68007**)
- Bierstone, Edward** (with Schwarz, Gerald W.) Continuous linear division and extension of C^∞ functions. **86b:32010**
- Bressan, Alberto** High order approximation of implicitly defined maps. **86d:58006**
- Bul'ygina, N. V.** See Antonyuk, V. A. et al., **(86c:68007)**
- Ciesielski, Zbigniew** Bases and K -functionals for Sobolev spaces over compact manifolds of class C^∞ . (Russian) **86c:58021**
- Dimca, Alexandru** Function germs defined on isolated hypersurface singularities. **86a:32027**
- Łojasiewicz, Stanisław** Sur un théorème de la division. [On a division theorem] **86g:32008**
- Łojasiewicz, Stanisław, Jr.** Sur les trajectoires du gradient d'une fonction analytique. [Trajectories of the gradient of an analytic function] **86m:58023**
- Novikov, S. P.** Critical points and level surfaces of multivalued functions. (Russian) **86b:58022**
- Orlov, A. V.** Critical points of smooth functions given on \mathbb{R}^N . (Russian) **86d:58016**
- Pyt'ev, Yu. P.** See Antonyuk, V. A. et al., **(86c:68007)**
- Rendi, B.** Differentiable functions defined by commutative Banach algebras. (Romanian summary) **86h:40088**
- See also Rendi, Dorina, **86a:58009**
- Rendi, Dorina** (with Rendi, B.) Derivations of functions algebras with singularities at the point. **86a:58009**
- Schwarz, Gerald W.** See Bierstone, Edward, **86b:32010**
- Shih, Wei-shu** Un invariant algébrique associé à une application continue. [An algebraic invariant associated to a continuous map] **86m:55011**
- Tidten, Michael** An example of a continuum of pairwise nonisomorphic spaces of C^∞ functions. **86i:46024**
- Tromba, A. J.** Degree theory on oriented infinite-dimensional varieties and the Morse number of minimal surfaces spanning a curve in \mathbb{R}^n . **86b:58025**
- Wall, C. T. C.** Determination of the semi-nice dimensions. **86c:58011**
- Williams, Steven R.** Implementing a generic smooth function. **86g:90033**

58C27 Singularities of differentiable maps [See also 14B05, 14E15, 32Bxx, 32C40, 32C45.]

- Alekseev, A. V.** Evenness of the number of points of intersection of cuspidal edges of a front and its surface. (Russian) **86g:58017**
- Arnol'd, V. I.** (with Varchenko, A. N.; Gusein-Zade, S. M.) ★ Особенности дифференцируемых отображений. II. (Russian) [Singularities of differentiable mappings. II] **86m:58026**
- (with Varchenko, A. N.; Givental', A. B.; Khovanskii, A. G.) Singularities of functions, wave fronts, caustics and multidimensional integrals. **86m:58027**
- (with Gusein-Zade, S. M.; Varchenko, A. N.) ★ Singularities of differentiable maps. Vol. I. **86f:58018**
- Singularities, bifurcations and catastrophes. (Bulgarian) **86j:58009**
- Audin, Michèle** Classes caractéristiques d'immersions lagrangiennes définies par des variétés de caustiques. [Characteristic classes of Lagrangian immersions defined by manifolds of caustics] **86c:58008**
- Bakhtin, V. I.** (Russian) **86c:58009**
- Banchoff, Thomas F.** (with Gaffney, Terence; McCrory, Clint) Counting tritangent planes of space curves. **86m:58028a**
- Berger, Melvyn S.** (with Church, P. T.; Timourian, J. G.) Folds and cusps in Banach spaces, with applications to nonlinear partial differential equations. I. **86i:58017**
- Britt, Jonathan** The anatomy of low-dimensional stable singularities. **86h:58018**
- Brücker, Theodor** Universelle Familien differenzierbarer Funktionen auf der Kreislänge. (English summary) [Universal families of differentiable functions on the circle] **86j:58010**
- Bruce, J. W.** (with Gibson, C. G.) Distance-genericity for real algebraic hypersurfaces. **86d:58009**
- Motion pictures: an application of singularity theory. **86e:58010b**
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- Generic space curves and secants. **86h:58019**
- Cafagna, Vittorio** On fold singularities of Fredholm maps and a theorem by Ambrosetti and Prodi. **86g:58018**
- Cerf, Jean** Suppression des singularités de codimension plus grande que 1 dans les familles de fonctions différentiables réelles (d'après Kiyoshi Igusa). [Removing singularities of codimension greater than 1 in families of real-valued differentiable functions (following Kiyoshi Igusa)] **86g:58014**
- Chen, Xu Yan** (with Matumoto, Takao) On generic 1-parameter families of C^∞ -maps of an n -manifold into a $(2n-1)$ -manifold. **86k:58014**
- Church, P. T.** See Berger, Melvyn S. et al., **86i:58017**
- Damon, James** (with Galligo, André) On the Hilbert-Samuel partition of stable map-germs. (French summary) **86b:58012**
- Topological triviality of versal unfoldings of complete intersections. (French summary) **86a:58011**
- The unfolding and determinacy theorems for subgroups of \mathcal{A} and \mathcal{K} . **86b:58013**
- El Khadiri, Abdelhafed** (with Tougeron, Jean-Claude) Familles noethériennes de sous-modules de $k[[x]]^p$ et applications. I. (English summary) [Noetherian families of submodules of $k[[x]]^p$ and applications. I] **86m:58029**
- Favaro, Luis Antonio** See da Silva, Eurípedes Alves, **86g:58022**
- Gaffney, Terence** See Banchoff, Thomas F. et al., **86m:58028a**
- Galligo, André** See Damon, James, **86b:58012**
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- Givental', A. B.** See Arnol'd, V. I. et al., **86m:58027**
- Gomoso, E. P.** Germs of smooth mappings that are ω -determined with respect to a class of transformations. (Russian) **86d:58010**
- Gusein-Zade, S. M.** See Arnol'd, V. I. et al., **86f:58018** and **86m:58026**
- Jänich, Klaus** ★ Linienfelder mit Verzweigungsdefekten. (German) [Line fields with branching defects] **86f:58019**
- Jepson, A.** (with Spence, A.) Folds in solutions of two parameter systems and their calculation. I. **86i:58018**
- (Khorosov, E.) See Arnol'd, V. I., **86j:58009**
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- Wright, F. J.** The topological approach to inverse scattering. **86c:58012**

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- Aranda Iriarte, José I.** Simple methods for studying degenerate singular points. (Spanish) (See **86g:00009**)
- Armbruster, D.** (with Dangelmayr, G.; Güttinger, W.) Imperfection sensitivity of interacting Hopf and steady-state bifurcations and their classification. **86m:58107**
- Benedetti, Riccardo** (with Cragolini, Paolo) Versal families of matrices with respect to unitary conjugation. **86f:15003**
- Bierstone, Edward** (with Schwarz, Gerald W.) Continuous linear division and extension of C^∞ functions. **86b:32010**
- Bogdanov, R. I.** Invariants of elementary singular points on the plane. (Russian) **86k:58087**
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- Cerveau, Dominique (with Mattei, Jean-François) Singularities of codimension one complex foliations. a partial survey. **86m:58126**
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- Cragnoil, Paolo See Benedetti, Riccardo, **86f:15003**
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- Donati, Flavio See Cafagna, Vittorio, **86g:58114**
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- Golubitsky, M. (with Marsden, Jerrold E.; Schaeffer, David G.) Bifurcation problems with hidden symmetries. **86a:58020**
- (with Schaeffer, David G.) ★ Singularities and groups in bifurcation theory. Vol. I. **86e:58014**
- Gray, Alistair Motion under gravity on a saddle. **86h:70003**
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- Kostov, V. P. Versal deformations of differential forms of degree α on the line. (Russian) **86g:32039**
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- Poly, Jean-Baptiste (with Raby, Gilles) Fonction distance et singularités. (English summary) [Distance functions and singularities] **86d:32008**
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- Schwarz, Gerald W. See Bierstone, Edward, **86b:32010**
- Stewart, Ian See Dangelmayr, G., **86g:58033**
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- Telxira, Marco Antonio On critical points of certain planar vector fields. **86j:58118**
- Varchenko, A. N. (with Chmutov, S. V.) Finite irreducible groups generated by reflections are the monodromy groups of appropriate singularities. (Russian) **86d:32011**
- (with Gusein-Zade, S. M.) Topology of caustics, wave fronts and degeneration of critical points. (Russian) **86h:32024**
- Wright, F. J. (with Dangelmayr, G.) On the exact reduction of a univariate catastrophe to normal form. **86f:58022**
- Yang, Shu Wán Self-intersection number of immersions and enumeration of nonstable vector bundles. **86g:57026**
- Zuppa, Carlos Bifurcations imparfaites de type potentiel et D -équivalences de déformations des fonctions. [Imperfect bifurcations of potential type and D -equivalences of deformations of functions] **86i:58028**
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- Gilmore, Robert ★ Прикладная теория катастроф. Кн. 1. (Russian) [Applied catastrophe theory. Book 1] **86d:58011a**
- ★ Прикладная теория катастроф. Кн. 2. (Russian) [Applied catastrophe theory. Book 2] **86d:58011b**
- Guastello, Stephen J. Euler buckling in a wheelbarrow obstacle course: a catastrophe with complex lag. (Not in MR)
- Color matching throughout the work week: an industrial application of the swallowtail-difference equation. (Not in MR)
- Guo, Wei Zhong Catastrophe theory—a new domain of modern mathematics. (Chinese. English summary) **86m:58032**
- (Gupalov, Yu. P.) See Gilmore, Robert, **86d:58011a** and **86d:58011b**
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- Thom, René ★ Mathematical models of morphogenesis. **86i:58019**
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- Banchoff, Thomas F. Differential geometry and computer graphics. **86f:53001**
- Casti, J. L. Simple models, catastrophes and cycles. **86g:58122**
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58C30 Fixed point theorems [See also 47H10.]

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- Goebel, Kazimierz (with Reich, Simeon) ★ Uniform convexity, hyperbolic geometry, and nonexpansive mappings. **86d:58012**
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- Allgower, E. L. (with Georg, K.) Relationships between deflation and global methods in the problem of approximating additional zeros of a system of nonlinear equations. **86b:90106**
- (with Schmidt, Phillip H.) An algorithm for piecewise-linear approximation of an implicitly defined manifold. **86h:65070**
- Descloux, J. Two remarks on continuation procedures for solving some nonlinear equations. **86m:90132**
- Dominguez Benavides, Tomás Some topological properties of the 1-set contractions. **86c:47072**
- Dugundji, J. A geometrical approach to degree theory and the Leray-Schauder index. **86j:55003**
- Fan, Xian Ling A note on generalized degree for generalized gradient mappings. **86j:47085**
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- Georg, K. See Allgower, E. L., **86b:90106**
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- Pacella, Filomena Extensions of topological degree theory. (See **86i:00019**)
- Sburian, Silviu ★ Gradul topologic. (Romanian) [The topological degree] **86b:47106**
- Schmidt, Phillip H. See Allgower, E. L., **86h:65070**
- Sun, Jing Xian Computation of topological degree and applications to nonlinear operators. (Chinese) **86m:47092**
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- Xu, Sen Lin (with Wang, Ze Ke) Homotopy methods for systems of algebraic equations work with probability 1. (Chinese. English summary) **86i:90117**
- Yamamoto, Norio Newton's method for singular problems and its application to boundary value problems. **86c:65044**

58C35 Integration on manifolds; measures on manifolds [See also 28Cxx.]

- Arutyunyan, S. Kh. The geometry of an $(n+s)$ -fold integral that depends on n parameters. (Russian) **86h:58024**
- Elworthy, K. David Path integration on manifolds. **86h:58025**
- Mandelbrot, Benoit B. Each fractal set has a unique fractal dimension. **86j:58016**
- Morris, Sidney A. (with Peck, Vincent C.) On the homeomorphic measure property. **86e:58011**
- Peck, Vincent C. See Morris, Sidney A., **86e:58011**
- Randol, Burton The behavior under projection of dilating sets in a covering space. **86g:58023**
- Rogers, Alice Consistent superspace integration. **86h:58026**

secondary classifications (58C35)

- Lebedev, N. A. ★ Интегрирование на многообразиях. (Russian) [Integration on manifolds] **86i:58002**
- Silin, D. B. Subdifferentials of convex functions, and integrals of multivalued mappings. (Russian) **86b:58009**
- Vladimirov, V. S. (with Volovich, I. V.) Superanalysis. Integral calculus. (Russian) **86c:58015a**
- (with Volovich, I. V.) Superanalysis. II. Integral calculus. (Russian) **86c:58015b**
- Volovich, I. V. See Vladimirov, V. S., **86c:58015a** and **86c:58015b**

58C40 Spectral theory; eigenvalue problems [See also 58E07.]

- Bérard, P. (with Besson, G.; Gallot, Sylvestre) Sur une inégalité isopérimétrique qui généralise celle de Paul Lévy-Gromov. [An isoperimetric inequality generalizing the Paul Lévy-Gromov inequality] **86j:58017**
- Besson, G. See Bérard, P. et al., **86j:58017**
- Gallot, Sylvestre See Bérard, P. et al., **86j:58017**
- Micheletti, Anna Maria Genericity properties for some eigenvalue problems. (Italian. English summary) (See **86m:35003**)

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- Buslaev, A. P. (with Tikhomirov, V. M.) Some problems of nonlinear analysis and approximation theory. (Russian) **86j:34023**
- Greenleaf, Allan The first eigenvalue of a sub-Laplacian on a pseudo-Hermitian manifold. **86f:58157**
- Mininni, Michele On the existence of infinitely many eigenvalues for a nonlinear elliptic problem with a noncoercive linear part. (Italian. English summary) (See **86m:35003**)
- Oshime, Yorimasa Nonlinear Perron-Frobenius problem for weakly contractive transformations. **86e:15028**
- Ros, Antonio See Barros, Manuel, **86k:58123**
- Tikhomirov, V. M. See Buslaev, A. P., **86j:34023**
- Vuillermet, Pierre-A. A class of Sturm-Liouville eigenvalue problems with polynomial and exponential nonlinearities. **86b:34047**

58C50 Analysis on supermanifolds or graded manifolds

- Backhouse, N. B. (with Fellouris, A. G.) On the superdeterminant function for supermatrices. **86c:58014**
- Fellouris, A. G. See Backhouse, N. B., **86c:58014**
- Rabin, Jeffrey M. The Berezin integral as a contour integral. **86f:58023**
- Vladimirov, V. S. (with Volovich, I. V.) Superanalysis. Integral calculus. (Russian) **86c:58015a**
- (with Volovich, I. V.) Superanalysis. II. Integral calculus. (Russian) **86c:58015b**
- Volovich, I. V. See Vladimirov, V. S., **86c:58015a** and **86c:58015b**

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- Aldaya, Víctor (with de Azcárraga, José A.) A note on the meaning of covariant derivatives in supersymmetry. **86k:53086**
- de Azcárraga, José A. See Aldaya, Víctor, **86k:53086**
- Englert, F. (with Nicolai, H.) Supergravity in eleven-dimensional space-time. **86d:83054**
- Gomis, J. (with Mato, P.; Novell, Montserrat) World-line condition for a spinning particle in superspace. (Italian and Russian summaries) **86e:81056**
- Hernández Ruipérez, Daniel (with Muñoz Masqué, Jaime) Global variational calculus on graded manifolds. I. Graded jet bundles, structure 1-form and graded infinitesimal contact transformations. **86m:58047a**
- (with Muñoz Masqué, Jaime) Global variational calculus on graded manifolds. II. **86m:58047b**
- Hoyos, J. (with Quirós, M.; de Urries, F. J.; Ramírez Mittlebrunn, J.) Superspaces and supermanifolds. **86c:58003**
- Mato, P. See Gomis, J. et al., **86e:81056**
- Muñoz Masqué, Jaime See Hernández Ruipérez, Daniel, **86m:58047a** and **86m:58047b**
- Nicolai, H. See Englert, F., **86d:83054**
- Novell, Montserrat See Gomis, J. et al., **86e:81056**
- Quirós, M. See Hoyos, J. et al., **86c:58003**
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- Trostel, R. Color-analysis and generalized Fock space. **86i:81060**
- de Urries, F. J. See Hoyos, J. et al., **86c:58003**

58C99 None of the above, but in this section

- Sylvester, John On the differentiability of $O(n)$ invariant functions of symmetric matrices. **86j:58018**

secondary classifications (58C99)

- Kim, Kyong Soo (with Yang, Youngoh) On the numerical range for nonlinear operators. **86c:47064**
- Pyt'ev, Yu. P. Problems of morphological analysis of images. (Russian) **86m:68136**
- Schwetlick, H. Effective methods for computing turning points of curves implicitly defined by nonlinear equations. **86j:65064**
- Yang, Youngoh See Kim, Kyong Soo, **86c:47064**
- Ziemian, Bogdan A Taylor type decomposition for distributions in one dimension. (Russian summary) **86i:46045a**
- An analysis of microlocal singularities of functions and distributions on the real line. (Russian summary) **86i:46045b**
- The derivative of a measurable function and of a distribution at a point and its basic properties. (Russian summary) **86i:46045c**

58Dxx Spaces and manifolds of mappings (including nonlinear versions of 46Exx)

58D05 Groups of diffeomorphisms and homeomorphisms as manifolds [See also 22E65, 57Q05.]

- Epstein, D. B. A. Commutators of C^∞ -diffeomorphisms. Appendix to: "A curious remark concerning the geometric transfer map" by John N. Mather [Comment. Math. Helv. **59** (1984), no. 1, 86-110; MR **86c:58017**]. **86c:58018**

- Lukatskii, A. M. Birational bases in groups of diffeomorphisms of manifolds T^n , S^n and RP^n . (Russian) **86m:58033**
 The curvature of the group of diffeomorphisms preserving the measure of the n -dimensional torus. (Russian) **86g:58024**
- Mascard, Francisca Normal subgroups of $\text{Diff}^1(\mathbb{R}^3)$. **86c:58016**
- Mathew, John N. A curious remark concerning the geometric transfer map. **86c:58017**
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- McDuff, Dusa Local homology of groups of volume-preserving diffeomorphisms. III. **86j:58019b**
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- Plante, J. F. Subgroups of continuous groups acting differentiably on the half-line. (French summary) **86j:58020**
- Salvetti, Reinaldo An example of integrability of involutive distributions on scale of Banach spaces. **86c:58019**
- secondary classifications (58D05)
- Baranov, Yu. S. Some applications of the geometry of infinite-dimensional manifolds in hydrodynamics. (Russian) **86m:58034**
- Goodman, Roe (with Wallach, Nolan R.) Structure and unitary cocycle representations of loop groups and the group of diffeomorphisms of the circle. **86g:22024a**
 (with Wallach, Nolan R.) Erratum to the paper: "Structure and unitary cocycle representations of loop groups and the group of diffeomorphisms of the circle" [J. Reine Angew. Math. **347** (1984), 69–133]. **86g:22024b**
- Ikeda, Nobuyuki (with Watanabe, Shinzo) Stochastic flows of diffeomorphisms. **86h:58144**
- Isham, C. J. (with Kakas, A. C.) A group theoretical approach to the canonical quantisation of gravity. I. Construction of the canonical group. **86k:83028a**
 (with Kakas, A. C.) A group theoretical approach to the canonical quantisation of gravity. II. Unitary representations of the canonical group. **86k:83028b**
- Jenkins, Mark (with Neumann, Walter D.) Rotation numbers of products of circle homeomorphisms. **86g:58082**
- Kakas, A. C. See Isham, C. J., **86k:83028a** and **86k:83028b**
- Krishnaprasad, P. S. On certain infinite-dimensional Lie algebras and related system-theoretic problems. **86k:17010**
- Kunita, Hiroshi On the convergence of solutions of stochastic ordinary differential equations as stochastic flows of diffeomorphisms. **86c:60087**
- McCarthy, Patrick J. (with Stephenson, W.) The classification of the conjugacy classes of the full group of homeomorphisms of an open interval and the general solution of certain functional equations. **86j:39007**
- Michor, Peter W. Applications of Hamilton's inverse function theorem to manifolds of mappings. **86k:58016**
- Neretin, Yu. A. Borel representation of the circle diffeomorphism group. (Russian) **86b:22034**
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- Neumann, Walter D. See Jenkins, Mark, **86g:58082**
- Putz, M. Some remarks on the automorphism group of a compact group action. (Russian and Czech summaries) **86b:58004**
- Rasetti, Mario (with Regge, Tullio) Quantum vortices and $\text{Diff}(\mathbb{R}^3)$. **86d:81097**
- Regge, Tullio See Rasetti, Mario, **86d:81097**
- Salvetti, Mario Diffeomorphisms of manifolds isotopic to the identity. (Italian. English summary) **86i:57039**
- Stephenson, W. See McCarthy, Patrick J., **86j:39007**
- Wallach, Nolan R. See Goodman, Roe, **86g:22024a** and **86g:22024b**
- Watanabe, Shinzo See Ikeda, Nobuyuki, **86h:58144**
- 58D07 Groups and semigroups of nonlinear operators [See also 17B65, 47Dxx, 47H20.]
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- Shimizu, Makoto Convergence of nonlinear evolution operators in Banach spaces. **86b:47115**
- 58D10 Spaces of imbeddings and immersions
- Bins, E. (with Peter, Th.) On deformation of differentials of immersions. **86d:58013**
 The space of smooth isometric immersions of a compact manifold into an Euclidean space is a Fréchet manifold. **86b:58017**
- Kaina, Gerd A metric on the manifold of immersions and its Riemannian curvature. **86c:58026**
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- secondary classifications (58D10)
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- Guran, I. I. (with Zarichnyi, M. M.) The Whitney topology and box products. (Russian. English summary) **86i:58022**
- Habegger, Nathan See Li, Bang He, **86c:57022**
- Lalonde, François Homologie de plongements dans les variétés différentiables. (English summary) [Homology of embeddings in differentiable manifolds] **86c:57028**
- Li, Bang He (with Habegger, Nathan) A two-stage procedure for the classification of vector bundle monomorphisms with applications to the classification of immersions homotopic to a map. **86c:57022**
- Yasui, Teotomu Notes on enumerating embeddings of unorientable n -manifolds in Euclidean $(2n-1)$ -space for odd n . **86c:57030**
- Zarichnyi, M. M. See Guran, I. I., **86i:58022**
- 58D15 Manifolds of mappings [See also 54C35.]
- Ciesielski, Zbigniew Bases and K -functionals for Sobolev spaces over compact manifolds of class C^∞ . (Russian) **86c:58021**
- Colvin, Michael R. Hilbert cube manifold structures on function spaces—the hyperbolic case. **86g:58028**
- Crabb, M. C. (with Sutherland, W. A.) Function spaces and Hurwitz-Radon numbers. **86d:58014**
- Guran, I. I. (with Zarichnyi, M. M.) The Whitney topology and box products. (Russian. English summary) **86i:58022**
- Michor, Peter W. Applications of Hamilton's inverse function theorem to manifolds of mappings. **86k:58016**
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- Vigué-Poirrier, Micheline Homotopie rationnelle et croissance du nombre de géodésiques fermées. [Rational homotopy and growth of the number of closed geodesics] **86h:58027**
- Zarichnyi, M. M. See Guran, I. I., **86i:58022**
- secondary classifications (58D15)
- Carey, A. L. (with Hurst, C. A.) A note on the boson-fermion correspondence and infinite-dimensional groups. **86h:22033**
- Ferro, Francesco BV spaces on manifolds and functions whose traces are measures. (Italian summary) **86g:46045**
- Hurst, C. A. See Carey, A. L., **86h:22033**
- Khimshiashvili, G. N. The topology of invertible singular integral operators. (Russian. English and Georgian summaries) **86b:47085**
- Kriegel, Andreas A Cartesian closed extension of the category of smooth Banach manifolds. **86i:58005**
- Michor, Peter W. A convenient setting for differential geometry and global analysis. **86g:58014a**
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- 58D17 Manifolds of metrics (esp. Riemannian)
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- Bins, E. (with Peter, Th.) On deformation of differentials of immersions. **86d:58013**
- Hulken, Gerhard Ricci deformation of the metric on a Riemannian manifold. **86k:53059**
- Mishchenko, A. S. On some homotopy invariants of pseudo-Riemannian metrics. **86f:53071**
- Peter, Th. See Bins, E., **86d:58013**
- 58D20 Measures (Gaussian, cylindrical, etc.) on manifolds of maps [See 28Cxx.]
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- Frenkel, Igor B. Orbital theory for affine Lie algebras. **86d:17014**
- Guivarch, Y. Exposants caractéristiques des produits de matrices aléatoires en dépendance markovienne. [Characteristic exponents of products of Markov-dependent random matrices] **86g:28023**
- 58D25 Equations in function spaces; evolution equations [See also 34Gxx, 35K22, 35R15.]
- Choquet-Bruhat, Yvonne Global solutions of Yang-Mills field equations. (Italian summary) **86k:58017**
- Ginocchio, M. (with Irac-Astaud, M.) Evolution equations of algebraic functionals. **86h:58028**
- Irac-Astaud, M. See Ginocchio, M., **86h:58028**
- Pavel, N. H. ★ Differential equations, flow invariance and applications. **86g:58027**
- secondary classifications (58D25)
- Bartnik, Robert Existence of maximal surfaces in asymptotically flat spacetimes. **86b:53063**
- Baxendale, Peter Brownian motions in the diffeomorphism group. I. **86c:58086**
- Carfora, M. Initial data sets and the topology of closed three-manifolds in general relativity. (Italian and Russian summaries) **86c:83007**
- Choquet-Bruhat, Yvonne The Cauchy problem in extended supergravity, $N=1$, $d=11$. **86i:83035**
- DeTurck, Dennis M. (with Yang, Deane) Existence of elastic deformations with prescribed principal strains and triply orthogonal systems. **86b:73014**
- Fischer, Gottfried Zentrumsannalitäten bei elliptischen Differentialgleichungen. [Center manifolds for elliptic differential equations] **86b:35060**
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- Hudson, R. L. (with Ion, P. D. F.; Parthasarathy, Kalyanapuram Rangachari) Time-orthogonal unitary dilations and noncommutative Feynman-Kac formulae. II. **86g:46094**
- Ion, P. D. F. See Hudson, R. L. et al., **86g:46094**
- Kosono, Hideo On existence and uniqueness of a global classical solution of the two-dimensional Euler equation in a time-dependent domain. **86i:35120**
- Kumich, K. (with Schappacher, W.; Webb, G. F.) Nonlinear age-dependent population dynamics with random diffusion. **86h:92043**

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58D30 Applications (in quantum mechanics (Feynman path integrals), relativity, fluid dynamics, etc.)

- Baranov, Yu. S. Some applications of the geometry of infinite-dimensional manifolds in hydrodynamics. (Russian) 86m:58034
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- Achiman, Y. (with Aoyama, S.; van Holten, J. W.) Symmetry breaking in gauged supersymmetric sigma-models. 86j:81060
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 Daubechies, Ingrid (with Klauder, John R.) Quantum-mechanical path integrals with Wiener measure for all polynomial Hamiltonians. II. 86m:81063
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- (with Truman, A.) Feynman maps, Cameron-Martin formulae and anharmonic oscillators. (French summary) 86f:81051
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58D99 None of the above, but in this section

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- Fintushel, Ronald (with Stern, Ronald J.) SO(3)-connections and the topology of 4-manifolds. 86k:57014
 Gill, Tepper L. (with Zachary, Woodford W.) Time-ordered operators and path integrals. (See 86i:81002)
 Man, Chi-Sing Material stability, the Gibbs conjecture and the first phase rule for substances. 86m:80006
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 Pijls, H. G. J. Self-dual Yang-Mills equations. (See 86i:81004)
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58Exx Variational problems in infinite-dimensional spaces

- Hildebrandt, Stefan Calculus of variations today, reflected in the Oberwolfach meetings. 86b:58029

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- Berger, Melvyn S. New ideas in the calculus of variations in the large. 86g:58001
 Giaquinta, Mariano ★ Multiple integrals in the calculus of variations and nonlinear elliptic systems. 86b:49003

58E05 Abstract critical point theory (Morse theory, Ljusternik-Schnirelman (Ljusternik-Shnirel'man) theory, etc.)

- Bahri, Abbas** Un problème variationnel sans compacité dans la géométrie de contact. (English summary) [A variational problem without compactness in contact geometry] **86a:58016**
(with Lions, Pierre-Louis) Remarques sur la théorie variationnelle des points critiques et applications. (English summary) [Remarks on variational critical point theory and applications] **86j:58021**
- Benci, V.** (with Pacella, Filomena) Morse theory for symmetric functionals on the sphere and an application to a bifurcation problem. **86m:58036**
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- Bondarchuk, V. S.** Periodic problem of the calculus of variations and deformations of Hamiltonian systems. (Russian) **86k:58018**
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- Boyd, J. B.** Muir's problem: how to count mountains. **86b:58018**
- Caposi, A.** On subquadratic Hamiltonian systems. **86a:58017**
- Christina, Jan** Another approach to the classical calculus of variations. II. Hamiltonian theory. **86f:58025**
- Combet, E.** Inégalités de Morse (d'après E. Witten). [Morse inequalities (after E. Witten)] **86b:58019**
- Conley, Charles** (with Zehnder, Eduard) Morse-type index theory for flows and periodic solutions for Hamiltonian equations. **86b:58021**
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- Dancer, E. N.** Morse inequalities and estimates for the number of solutions of nonlinear equations. **86j:58023**
- Degiovanni, Marco** (with Marino, Antonio; Tosques, Mario) Critical points and evolution equations. **86f:58026**
- Farber, M. Sh.** Mappings into a circle with a minimal number of critical points and multidimensional knots. (Russian) **86i:58023**
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- Gonçalves, J. V. A.** Existence of saddle points for functionals on Hilbert spaces: applications to Hammerstein equations. **86g:58030**
- Hennart, Guy** Les inégalités de Morse (d'après E. Witten). [The Morse inequalities (following E. Witten)] **86f:58027**
- Hong, Chong Wei** A critical point theorem and applications. (Chinese) **86c:58022**
- Hong, Suk Ho** On a generalization of the abstract Morse complex and its applications. **86i:58024**
- Houston, P. J.** (with Sen, Siddhartha) Symmetry breaking patterns and extended Morse theory. **86d:58015**
- Langer, Joel** (with Singer, David A.) Curve straightening and a minimax argument for closed elastic curves. **86j:58023**
- Li, Shu Jie** See **Li, Jia Quan** (Not in MR)
- Lions, Pierre-Louis** See **Bahri, Abbas**, **86j:58021**
- Liu, Chang Mao** On the forms of the Euler-Lagrange equations. (Chinese. English summary) **86c:58023**
- Liu, Jia Quan** (with Li, Shu Jie) An existence theorem for multiple critical points and its application. (Chinese) (Not in MR)
- Lu, Wen Zhao** On the homotopy type of a Fréchet space. (Chinese. English summary) **86c:58024**
- Marino, Antonio** See **Degiovanni, Marco** et al., **86f:58026**
- Novikov, S. P.** Multivalued functionals in modern mathematical physics. **86m:58037**
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- Pacella, Filomena** See **Benci, V.**, **86m:58036**
- Peng, Xiao Wei** On the Morse complex. **86g:58031**
- Pucci, Patricia** (with Serrin, James) Extensions of the mountain pass theorem. **86d:58017**
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- Rabinowitz, Paul H.** Minimax methods and their application to partial differential equations. **86c:58025**
- Riddell, R. C.** Minimax problems on Grassmann manifolds. Sums of eigenvalues. **86a:58019**
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- Serrin, James** See **Pucci, Patricia**, **86d:58017** and **86m:58038**
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- Tian, Gang** On the mountain-pass lemma. **86j:58024**
- Tosques, Mario** See **Degiovanni, Marco** et al., **86f:58026**
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- Zehnder, Eduard** See **Conley, Charles**, **86b:58020** and **86b:58021**
- secondary classifications (58E05)
- Bagger, J.** (with Goldstein, W.; Soldate, M.) Static solutions in the vacuum sector of the Skyrme model. **86g:81087**
- Bahri, Abbas** (with Coron, Jean-Michel) Une théorie des points critiques à l'infini pour l'équation de Yamabe et le problème de Kazdan-Warner. (English summary) [Critical points at infinity in the Yamabe equation and the Kazdan-Warner problem] **86f:58161**
- Basile, Nicola** (with Mininni, Michele) Multiple periodic solutions for a semilinear wave equation with nonmonotone nonlinearity. (See **86m:35003**)
- Berestycki, Henri** (with Lions, Pierre-Louis) Théorie des points critiques et instabilité des ondes stationnaires pour des équations de Schrödinger non linéaires. (English summary) [Critical point theory and instability of standing waves in nonlinear Schrödinger equations] **86m:35014**
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- Bonora, L.** (with Cotta-Ramusino, P.; Reina, C.) Cohomological interpretation of anomalies. The example of the trace anomaly. (See **86b:81002**)
- Burlet, Oskar** (with Haab, Vely) Réalisations de fonctions de Morse sur des surfaces, par des immersions et plongements dans l'espace \mathbb{R}^3 . (English summary) [Realization of Morse functions on surfaces by embeddings and immersions in \mathbb{R}^3] **86k:53071**
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- Peres, Asher Ergodicity and mixing in quantum theory. I. **86b:81008a**
See also Feingold, Mario et al., **86b:81008b**
- Riela, Giovanni Transitions tori-chaos through collisions with hyperbolic orbits. **86m:58118**
- Shayman, Mark A. On the phase portrait of the matrix Riccati equation arising from the periodic control problem. **86j:34038**
- Smale, Steve On the efficiency of algorithms of analysis. **86m:65061**
- Soong, T. T. (with Chung, L. L.) Response cell probabilities for nonlinear random systems. **86f:70025**
- Szustalewicz, A. On orthogonal decomposition of two-dimensional vector fields. **86b:65116**
- Tresser, Charles See Chenciner, A. et al., **86g:58081**
- Wegner, F. See Hoffmann, K. H. et al., **86m:82026**
- Zadorozhnyi, V. F. Investigation of diffeomorphisms of Riemannian manifolds into an algebra of algorithms. (Russian) **86k:58059**

58Gxx Partial differential equations on manifolds; differential operators [See also 35-XX.]

- (Rempel, S.) See Seminar: Analysis, **86b:58126**
(Schulze, B.-W.) See Seminar: Analysis, **86b:58126**
Berlin ★ Seminar analysis. 1983/84. **86b:58126**
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- de Jager, E. M. (with Spannenburg, S.) Prolongation structures and Bäcklund transformations for the matrix Korteweg-de Vries and the boomer equation. **86k:35136**
- Spannenburg, S. See de Jager, E. M., **86k:35136**

58G05 Differential complexes [See also 35Nxx.]; elliptic complexes

- Bureš, Jarolm (with Souček, Vladimír) On generalized Cauchy-Riemann equations on manifolds. **86k:58111**
- Buslaev, V. S. (with Nalimova, E. A.) The trace formula in general Hamiltonian mechanics. (Russian. English summary) **86f:58145**
- Bussanca, Claudio The Lichnerowicz Laplacian on tensors. (Italian. English summary) **86c:58132**
- Corwin, Lawrence Necessary and sufficient conditions for hypoellipticity of certain left invariant operators on nilpotent Lie groups. II. **86i:58122**
- Cotsiolis, A. Opérateurs elliptiques du second ordre sur une variété asymptotiquement euclidienne. [Second-order elliptic operators on asymptotically Euclidean manifolds] **86b:58112**
- Lévy-Bruhl, Pierre Conditions suffisantes de résolubilité locale d'opérateurs invariants à gauche sur des groupes nilpotents. [Sufficient conditions of local solvability for left invariant operators on nilpotent groups] **86g:58123**
- Lychagin, V. V. Differential operators on fiber spaces. (Russian) **86g:58124**
- Morava, Jack Complex powers of the Laplace operator on the circle. **86j:58140**
- Murray, M. K. A twistor correspondence for homogeneous polynomial differential operators. **86j:58141**
- Nacimovich, Mauro On global solvability for some systems of partial differential equations. **86a:58096**
- Nalimova, E. A. See Buslaev, V. S., **86f:58145**
- Samborskii, S. N. Coercive boundary value problems for overdetermined systems (elliptic problems). (Russian) **86d:58109**
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- Sharipov, F. Independence of the spectrum of an elliptic operator over a C^* -algebra. (Russian) **86m:58141**
- Souček, Vladimír See Bureš, Jarolm, **86k:58111**

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- Chou, Arthur Weichung The Dirac operator on spaces with conical singularities and positive scalar curvatures. **86i:58124**
- Freed, Daniel S. (with Uhlenbeck, Karen K.) ★ Instantons and four-manifolds. **86c:57031**
- Gasqui, Jacques Formal integrability of systems of partial differential equations. **86k:58140**
- Helfer, B. Partial differential equations on nilpotent groups. **86b:22016**
- Nacimovich, Mauro Poincaré lemma for tangential Cauchy-Riemann complexes. **86c:32025**
- Nagel, Alexander (with Stein, Elias M.; Wainger, Stephen) Balls and metrics defined by vector fields. I. Basic properties. **86k:46049**
- Penney, Richard Nonelliptic Laplace equations on nilpotent Lie groups. **86e:22012**
- Solomyak, M. Z. The Calderón projection. (Russian) **86c:35048**
- Stein, Elias M. See Nagel, Alexander et al., **86k:46049**
- Uhlenbeck, Karen K. See Freed, Daniel S., **86c:57031**
- Wainger, Stephen See Nagel, Alexander et al., **86k:46049**

- Xu, Chao Jiang Hypoellipticité pour les équations aux dérivées partielles non linéaires associées à un système de champs de vecteurs. (English summary) [Hypoellipticity for nonlinear partial differential equations associated with a system of vector fields] **86f:35055**

58G07 Relations with hyperfunctions

- Andronikof, Emmanuel Sur une question de S. Mizohata. (English summary) [On a question of S. Mizohata] **86f:58146**
- Björk, Jan-Erik On characteristic varieties. **86c:58133**
- Boutet de Monvel, L. Problème de Riemann-Hilbert. I. Rappels sur les équations différentielles et les connexions. [The Riemann-Hilbert problem. I. Review of differential equations and connections] **86e:58074**
Problème de Riemann-Hilbert. III. [The Riemann-Hilbert problem. III] **86e:58076**
- (Brylinski, J.-L.) See Kashiwara, Masaki, **86b:58113**
- Douady, Adrien Problème de Riemann-Hilbert. II. Solution pour des points singuliers réels. [The Riemann-Hilbert problem. II. Solution for real singular points] **86e:58075**
- Ginsburg, V. A. A theorem on the index of differential systems and the geometry of varieties with singularities. (Russian) **86k:58112**
- Kashiwara, Masaki ★ Systems of microdifferential equations. **86b:58113**
The Riemann-Hilbert problem for holonomic systems. **86j:58142**
(with Schapira, Pierre) Micro-support et variété caractéristique. [Microsupports and the characteristic variety] (See **86d:35003**)
- Kawai, Takahiro The Fabry-Ehrenpreis gap theorem for hyperfunctions. **86f:58147**
- Laurent, Yves ★ Théorie de la deuxième microlocalisation dans le domaine complexe. (French) [Theory of second microlocalization in the complex domain] **86k:58113**
- Lieutenant, Jean-Louis Fronts d'onde à l'infini des fonctions analytiques réelles. (English summary) [Infinite wave fronts of real analytic functions] **86b:58114**
Microlocalization at infinity of the sheaf of real analytic functions. **86c:58134**
- Loday-Richaud, Michèle Théorèmes d'indices dans les espaces de type Gevrey généralisé. [Index theorems in spaces of generalized Gevrey type] **86g:58125**
- Malgrange, B. Polynômes de Bernstein-Sato et cohomologie évanescence. [The Bernstein-Sato polynomials and vanishing cohomology] **86f:58148**
- (Monteiro Fernandes, Teresa) See Kashiwara, Masaki, **86b:58113**
- Ôaku, Toshinori A new formulation of local boundary value problem in the framework of hyperfunctions. I. **86c:58135**
- Schapira, Pierre See Kashiwara, Masaki, **(86d:35003)**
- Smydyt, Zofia (with Ziemian, Bogdan) Explicit invariant solutions for invariant linear differential operators. **86b:58115**
- Tajima, Shinichi Analyse microlocale sur les variétés de Cauchy-Riemann et problème de Lewy pour les solutions hyperfonctions. [Microlocal analysis on Cauchy-Riemann manifolds and the Lewy problem for hyperfunction solutions] **86g:58126**
- Ziemian, Bogdan See Smydyt, Zofia, **86b:58115**

secondary classifications (58G07)

- Bros, J. (with Pesenti, D.) Fredholm resolvents of meromorphic kernels with complex parameters: a Landau singularity and the associated equations of type U in a nonholonomic case. **86h:81045**
- Cano Torres, Felipe (with Hermida Alonso, José Ángel; Lê Dũng Tráng) ★ Introducción a la geometría de los sistemas diferenciales. (Spanish) [Introduction to the geometry of differential systems] **86j:32001**
- Dubson, Alberto S. Formule pour l'indice des complexes constructibles et des Modules holonomes. (English summary) [A formula for the index of constructible complexes and holonomic Modules] **86e:32016a**
Erratum: "A formula for the index of constructible complexes and holonomic Modules". (French) **86e:32016b**
- Hermida Alonso, José Ángel See Cano Torres, Felipe et al., **86j:32001**
- Jimbo, Michio See Sato, Mikio et al., **86j:81074**
- Kashiwara, Masaki (with Schapira, Pierre) Micro-support d'un faisceau: application aux modules différentiels. [Microsupport of a sheaf: application to differential modules] **86c:32017**
- Lê Dũng Tráng Variétés caractéristiques des modules de Deligne. [Characteristic varieties of Deligne modules] **86k:32011**
See also Cano Torres, Felipe et al., **86j:32001**
- Malgrange, B. Transformation de Fourier géométrique et microlocalisation. [Geometric Fourier transform and microlocalization] **86b:32012**
- Miwa, Tetsuji See Sato, Mikio et al., **86j:81074**
- Ôshima, Toshio A definition of boundary values of solutions of partial differential equations with regular singularities. **86d:35009**
- Pesenti, D. See Bros, J., **86h:81045**
- Ramls, J.-P. Phénomène de Stokes et resommation. (English summary) [The Stokes phenomenon and resummation] **86k:12011**
- Sato, Mikio (with Miwa, Tetsuji; Jimbo, Michio) Holonomic quantum fields. III. **86j:81074**
- Schapira, Pierre See Kashiwara, Masaki, **86c:32017**
- Schlichtkrull, Henrik ★ Hyperfonctions and harmonic analysis on symmetric spaces. **86g:22021**
- (Vladimirov, V. S.) See Holonomic quantum fields, **86m:81001**
- (Volovich, I. V.) See Holonomic quantum fields, **86m:81001**
- Zampieri, Giuseppe Algebraic conditions on partial differential operators for existence of microlocal fundamental solutions with singularities carried by proper cones. (Italian summary) **86c:35007**
- Holonomic quantum fields ★ Голономные квантовые поля. (Russian) [Holonomic quantum fields] **86m:81001**

58G10 Index theory and fixed point theorems [See also 19K56, 46L80, 47Hxx.]

- Adjamagbo, K. Théorèmes d'indice pour les systèmes généraux d'équations différentielles linéaires. [Index theorems for general systems of linear differential equations] **86a:58097**
- Alvares, Orlando (with Singer, I. M.; Zumino, Bruno) Gravitational anomalies and the family's index theorem. **86c:58136**
- Alvares-Gaumé, Luis See Nelson, Philip, **86c:58115**
- Atiyah, Michael Anomalies and index theory. **86i:58123**
(with Singer, I. M.) Dirac operators coupled to vector potentials. **86g:58127**
- Baum, Helga The index of the pseudo-Riemannian Dirac operator as a transversally elliptic operator. **86a:58098**
- Berline, Nicole (with Vergne, Michèle) Un calcul de l'indice équivariant de l'opérateur de Dirac par la méthode de la chaleur. (English summary) [A computation of the equivariant index of the Dirac operator by the heat method] **86a:58099**
- Bernstein, Marc D. (with Brown, Lowell S.) Topological invariance of the Witten index and related quantities. **86h:58127**
- Betina, Kamel Sur l'indice des opérateurs différentiels ordinaires. [On the index of ordinary differential operators] **86f:58149**
- Bismut, Jean-Michel The Atiyah-Singer theorems: a probabilistic approach. I. The index theorem. **86g:58128a**
The Atiyah-Singer theorems: a probabilistic approach. II. The Lefschetz fixed point formula. **86g:58128b**
Le théorème de l'indice des familles: une démonstration par l'équation de la chaleur. (English summary) [A proof of the index theorem for families using the heat equation] **86h:58128**
Index theorem and equivariant cohomology on the loop space. **86h:58129**
- Bleeker, D. D. See Booss, B., **86g:58129**
- Booss, B. (with Bleeker, D. D.) *Topology and analysis. **86g:58129**
(with Wojciechowski, Krzysztof) The index of elliptic operators on a mapping torus. **86h:58130**
- Bourguignon, Jean-Pierre Introduction aux spineurs harmoniques. [Introduction to harmonic spinors] (See **86i:58030**)
- Brown, Lowell S. See Bernstein, Marc D., **86h:58127**
- Cheeger, J. (with Gromov, Mikhail) On the characteristic numbers of complete manifolds of bounded curvature and finite volume. **86h:58131**
- Chou, Arthur Welchung The Dirac operator on spaces with conical singularities and positive scalar curvatures. **86i:58124**
- Fegan, H. D. (with Gilkey, Peter B.) Invariants of the heat equation. **86g:58130**
- Gilkey, Peter B. See Fegan, H. D., **86g:58130**
- Gromov, Mikhail See Cheeger, J., **86h:58131**
- Haskell, Peter Index theory on curves. **86m:58142**
(Mader, Adolf) See Booss, B., **86g:58129**
- Mel, Xiang Ming Gilkey's theorem on Kähler manifolds. (Chinese) **86k:58114**
- Moscovici, Henri Lefschetz formulae for Hecke operators. **86j:58143**
- Nelson, Philip (with Alvarez-Gaumé, Luis) Hamiltonian interpretation of anomalies. **86k:58115**
- Rosenberg, Steven Harmonic forms and L^2 cohomology on manifolds with cylinders. **86i:58125**
- Singer, I. M. See Alvares, Orlando et al., **86c:58136** and Atiyah, Michael, **86g:58127**
- Sumitani, Toshiki Chiral anomalies and the generalised index theorem. **86c:58077**
- Tóth, Gabor On the Atiyah-Singer index theorem. VII, VIII. (Hungarian) **86g:58131**
- Vergne, Michèle See Berline, Nicole, **86a:58099**
- Windex, P. Supersymmetric quantum mechanics and the Atiyah-Singer index theorem. **86g:58133**
- Wojciechowski, Krzysztof See Booss, B., **86h:58130**
- Zumino, Bruno See Alvares, Orlando et al., **86c:58136**

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- Akhoury, R. (with Comtet, A.) Anomalous behavior of the Witten index—exactly soluble models. **86a:81047**
- Atiyah, Michael (with Donnelly, Harold; Singer, I. M.) Eta invariants, signature defects of cusps, and values of L -functions. **86g:58134a**
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- Baldoni Silva, M. W. L^2 index and unitary representations. **86a:22035**
- Blankenbecler, Richard (with Boyanovsky, Daniel) Fractional charge and spectral asymmetry in one dimension: a closer look. **86h:81085**
See also Boyanovsky, Daniel, **86a:81065** and **86f:81081**
- Bonora, L. (with Pasti, P.; Tonin, M.) Gravitational and Weyl anomalies. **86i:81094**
- Booss, B. (with Schulze, B.-W.) Index theory and elliptic boundary value problems. Remarks and open problems. **86h:58130**
- Boyanovsky, Daniel (with Blankenbecler, Richard) Fractional indices in supersymmetric theories. **86a:81065**
(with Blankenbecler, Richard) Axial and parity anomalies and vacuum charge: a direct approach. **86f:81081**
See also Blankenbecler, Richard, **86h:81085**
- Callan, C. G., Jr. (with Harvey, Jeffrey A.) Anomalies and fermion zero modes on strings and domain walls. **86m:81123**
- Combès, E. Inégalités de Morse (d'après E. Witten). [Morse inequalities (after E. Witten)] **86b:58019**
- Comtet, A. See Akhoury, R., **86a:81047**
- Demailly, J.-P. Champs magnétiques et inégalités de Morse pour la d'' -cohomologie. (English summary) [Magnetic fields and Morse inequalities for d'' -cohomology] **86k:32028**
- D'Hoker, Eric (with Vinet, Luc) Classical solutions to topologically massive Yang-Mills theory. **86k:81088**

- Donaldson, S. K. 4-manifolds with indefinite intersection form. **86m:57037**
- Donnelly, Harold See Atiyah, Michael et al., **86g:58134a** and **86g:58134b**
- Fujikawa, Kazuo Chiral anomaly and the Wess-Zumino condition. **86c:81086**
- Gao, Hong Bo (with Zeng, Lang Che) SU(2) instanton and Witten anomaly. **86k:81115**
- Getsler, Ezra Pseudodifferential operators on supermanifolds and the Atiyah-Singer index theorem. **86a:58104**
- Gilkey, Peter B. * Invariance theory, the heat equation, and the Atiyah-Singer index theorem. **86j:58144**
- Guo, Han Ying See Zhou, Guang Zhao et al., **86c:81115**
- Harvey, Jeffrey A. See Callan, C. G., Jr., **86m:81123**
- Höppner, W. Transversal elliptische Randwertprobleme. [Transversally elliptic boundary value problems] **86m:35075**
- Imbimbo, Camillo (with Mukhi, Sunil) Index theorems and supersymmetry in the soliton sector. II. Magnetic monopoles in 3 + 1 dimensions. **86i:81085**
- Ishikawa, Kenzo Chiral anomaly and quantized Hall effect. **86c:81052**
- Lee, Sung J. Infinitely many nonhomogeneous conditions. **86g:47002**
- Lockhart, Robert B. (with McOwen, Robert C.) Correction to: "On elliptic systems in R^n " [Acta Math. 150 (1983), no. 1-2, 125-135; MR 84d:35048]. **86a:35049**
- Marcus, Neil Composite anomalies in supergravity. **86k:83075**
- McOwen, Robert C. See Lockhart, Robert B., **86a:35049**
- Mukhi, Sunil See Imbimbo, Camillo, **86i:81085**
- Müller, Werner Signature defects of cusps of Hilbert modular varieties and values of L -series at $s = 1$. **86j:11049**
- Niemi, A. J. (with Semenoff, Gordon W.) Spectral asymmetry on an open space. **86f:58151**
Topological solitons in a hot and dense Fermi gas. **86i:81141**
(with Semenoff, Gordon W.) Anomalies, Levinson's theorem, and fermion determinants. **86m:81080**
- Nisimov, E. R. (with Pacheva, S. J.) Parity-violating anomalies in supersymmetric gauge theories. **86i:81092**
- Pacheva, S. J. See Nisimov, E. R., **86i:81092**
- Palumbo, F. The Witten index in supersymmetric gauge theories. **86g:81063**
- Pastı, P. See Bonora, L. et al., **86i:81094**
- Rybickowski, Krzysztof P. An index product formula for the study of elliptic resonance problems. **86i:58127**
- Sánchez-Velasco, E. The Gauss-Bonnet-Chern theorem and supersymmetry. **86c:53024**
- Schulze, B.-W. See Booss, B., **86h:58130**
- Semenoff, Gordon W. See Niemi, A. J., **86f:58151** and **86m:81080**
- Singer, I. M. See Atiyah, Michael et al., **86g:58134a** and **86g:58134b**
- Singhof, W. The d -invariant of compact nilmanifolds. **86c:57042**
- Song, Xing Chang See Zhou, Guang Zhao et al., **86c:81115**
- Tataru-Mihal, P. Eta invariants, charge fractionalization and anomalies. **86m:81139**
- Taubes, Clifford Henry Stability in Yang-Mills theories. **86b:58027**
- Teleman, Nicolas The index theorem for topological manifolds. **86c:58137**
- Thierry-Mieg, Jean Classification of the Yang-Mills anomalies in even and odd dimension. **86i:81107**
- Tonin, M. See Bonora, L. et al., **86i:81094**
- Vinet, Luc See D'Hoker, Eric, **86k:81088**
- Visser, Matt Topological degree for supersymmetric chiral models. **86i:81108**
- Wojciechowski, Krzysztof Spectral flow and the general linear conjugation problem. **86k:58120**
- Wu, Ke See Zhou, Guang Zhao et al., **86c:81115**
- Wu, Yong Shi Chern-Simons topological Lagrangians in odd dimensions and their Kaluza-Klein reduction. **86b:53074**
Cohomology of gauge fields and explicit construction of Wess-Zumino Lagrangians in nonlinear sigma models over G/H . **86k:81115**
- Zeng, Lang Che See Gao, Hong Bo, **86k:81115**
- Zhou, Guang Zhao (with Guo, Han Ying; Wu, Ke; Song, Xing Chang) The topological origins of gauge anomalies. **86c:81115**

58G11 Heat and other parabolic equation methods

- Arede, Teresa The heat kernel on Riemannian manifolds and Lie groups. **86g:58133**
Manifolds for which the heat kernel is given in terms of geodesic lengths. **86k:58116**
- Atiyah, Michael (with Donnelly, Harold; Singer, I. M.) Eta invariants, signature defects of cusps, and values of L -functions. **86g:58134a**
(with Donnelly, Harold; Singer, I. M.) Signature defects of cusps and values of L -functions: the nonsplit case. Addendum to: "Eta invariants, signature defects of cusps, and values of L -functions". **86g:58134b**
- Beals, R. (with Greiner, Peter C.; Stanton, Nancy K.) The heat equation on a CR manifold. **86g:58135**
- Bismut, Jean-Michel * Large deviations and the Malliavin calculus. **86f:58150**
- Donnelly, Harold Heat equation asymptotics with torsion. **86h:58132**
See also Atiyah, Michael et al., **86g:58134a** and **86g:58134b**
- Gilkey, Peter B. * Invariance theory, the heat equation, and the Atiyah-Singer index theorem. **86j:58144**
- Greiner, Peter C. See Beals, R. et al., **86g:58135**
- Korányi, A. (with Taylor, John Christopher) Minimal solutions of the heat equation and uniqueness of the positive Cauchy problem on homogeneous spaces. **86i:58126**
- Li, Peter Uniqueness of L^1 solutions for the Laplace equation and the heat equation on Riemannian manifolds. **86b:58133**
- Lohoué, Noël Comparaison des champs de vecteurs et des puissances du laplacien sur une variété riemannienne à courbure non positive. [Comparison of the vector fields and powers of the Laplacian on a Riemannian manifold with nonpositive curvature] **86k:58117**
- Nagase, Masayoshi The fundamental solutions of the heat equations on Riemannian spaces with cone-like singular points. **86a:58100**
- Rybickowski, Krzysztof P. An index product formula for the study of elliptic resonance problems. **86i:58127**

- Sánchez-Calle, Antonio Fundamental solutions and geometry of the sum of squares of vector fields. **86a:58078**
 Singer, I. M. See Atiyah, Michael et al., **86g:58134a** and **86g:58134b**
 Stanton, Nancy K. The heat equation in several complex variables. **86a:58101**
 See also Beals, R. et al., **86g:58135**
 Taylor, John Christopher See Korányi, A., **86i:58126**

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- Axelsson, O. On the numerical solution of convection dominated convection-diffusion problems. **86k:76058**
 Asencott, Robert Densité des diffusions en temps petit: développements asymptotiques. I. [Density of diffusions in small time: asymptotic expansions. I] **86i:60196**
 Baaquie, Belal E. Path-integral derivation of the heat kernel on $SU(N)$ space. **86i:81051**
 Berline, Nicole (with Vergne, Michèle) Un calcul de l'indice équivariant de l'opérateur de Dirac par la méthode de la chaleur. (English summary) [A computation of the equivariant index of the Dirac operator by the heat method] **86a:58099**
 Bismut, Jean-Michel Calcul des variations stochastiques et grandes déviations. (English summary) [Stochastic calculus of variation and large deviations] **86h:60109**
 The Atiyah-Singer theorems: a probabilistic approach. I. The index theorem. **86g:58128a**
 The Atiyah-Singer theorems: a probabilistic approach. II. The Lefschetz fixed point formula. **86g:58128b**
 Le théorème de l'indice des familles: une démonstration par l'équation de la chaleur. (English summary) [A proof of the index theorem for families using the heat equation] **86h:58128**
 Cheeger, J. (with Gromov, Mikhail) On the characteristic numbers of complete manifolds of bounded curvature and finite volume. **86h:58131**
 Chou, Arthur Weichung The Dirac operator on spaces with conical singularities and positive scalar curvatures. **86i:58124**
 Fegan, H. D. (with Gilkey, Peter B.) Invariants of the heat equation. **86g:58130**
 Fisher, A. W. Evaluation of supersymmetric heat kernels. **86j:81108**
 Gilkey, Peter B. See Fegan, H. D., **86g:58130**
 Gromov, Mikhail See Cheeger, J., **86h:58131**
 Hauke, Johan An effective action for a variable electromagnetic field. **86a:81053**
 Huisken, Gerhard Ricci deformation of the metric on a Riemannian manifold. **86k:53059**
 Jimbo, Shuichi On a semilinear diffusion equation on a Riemannian manifold and its stable equilibrium solutions. **86g:58144**
 Nepomechie, Rafael I. Evaluating fermion determinants through the chiral anomaly. **86f:81131**
 Calculating heat kernels. **86i:81091**
 Parker, Leonard (with Toms, D. J.) New form for the coincidence limit of the Feynman propagator, or heat kernel, in curved spacetime. **86a:81071**
 Rached, Mneimeine Équation de la chaleur sur un espace riemannien symétrique et formule de Plancherel. [The heat equation on a Riemannian symmetric space, and the Plancherel formula] **86a:22036**
 Rafajlowicz, Ewaryst Optimization of measurements for state estimation in parabolic distributed systems. **86d:93114**
 Robert, D. Approximation semi-classique de la phase de diffusion pour un potentiel. [Semiclassical approximation of the diffusion phase for a potential] (See **86f:35004**)
 Toms, D. J. See Parker, Leonard, **86a:81071**
 Vergne, Michèle See Berline, Nicole, **86a:58099**

58G12 Exotic index theories [See also 19K56, 46L05, 46L10, 46L80, 46M20.]

- Carey, A. L. (with O'Brien, D. M.) Automorphisms of the infinite-dimensional Clifford algebra and the Atiyah-Singer mod 2 index. **86a:58102**
 Niemi, A. J. (with Semenov, Gordon W.) Spectral asymmetry on an open space. **86f:58151**
 O'Brien, D. M. See Carey, A. L., **86a:58102**
 Semenov, Gordon W. See Niemi, A. J., **86f:58151**
 Teleman, Nicolae The index theorem for topological manifolds. **86e:58137**
 Elliptic operators on locally compact spaces. (Italian) **86f:58152**
 Valette, Alain K -theory for the reduced C^* -algebra of a semisimple Lie group with real rank 1 and finite center. **86j:58145**
 Wojciechowski, Krzysztof Elliptic operators and relative K -homology groups on manifolds with boundary. **86g:58136**

secondary classifications (58G12)

- (Connes, Alain) See Takai, Hiroshi, **86e:58002**
 Fack, Thierry K -théorie bivariable de Kasparov. [Kasparov's bivariant K -theory] **86f:46075**
 Haskell, Peter Index theory on curves. **86m:58142**
 Imbimbo, Camillo (with Mukhi, Sunil) Index theorems and supersymmetry in the soliton sector. **86f:81093**
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- Agranovich, M. S. Elliptic pseudodifferential operators on a closed curve. (Russian) **86g:35218**

- Baykin, Gregory The inversion problem and applications of the generalized Radon transform. **86a:44002**
- Budanov, V. G. Methods for Weyl representation of a phase space and canonical transformations. I. (Russian. English summary) **86i:81045**
- Buslaev, V. S. (with Nalimova, E. A.) The trace formula in general Hamiltonian mechanics. (Russian. English summary) **86f:58145**
- Corwin, Lawrence (with Helfer, B.; Rothschild, Linda Preiss) Smoothness and analyticity for solutions of first order systems of partial differential equations on nilpotent Lie groups. **86k:58137**
- Delbosco, D. (with Rodino, Luigi) On the Hamiltonian flow associated to the symbol of a general pseudodifferential operator. **86f:35184**
- Duistermaat, J. J. On the similarity between the Iwasawa projection and the diagonal part. **86k:22035**
- Duval, Anne Étude asymptotique d'une intégrale analogue à la fonction "T modifiée". [Asymptotic study of an integral analogous to the modified Γ -function] **86b:41036**
- Eser, P. Équations de transport matricielles pour les symboles analytiques. (English summary) [Matrix transport equations for analytic symbols] **86a:35157**
- Fujiwara, Daisuke (with Omori, Hideki) An example of a globally hypo-elliptic operator. **86a:35038**
- Geller, Daryl Toward analytic pseudodifferential operators for the Heisenberg group. **86g:22014**
- Gramsch, Bernhard Relative Inversion in der Störungstheorie von Operatoren und Ψ -Algebren. [Relative inversions in perturbation theory of operators and Ψ -algebras] **86j:47085**
- Helfer, B. ★ Théorie spectrale pour des opérateurs globalement elliptiques. (French) [Spectral theory for globally elliptic operators] **86d:35151**
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- Karashv, M. V. (with Maslov, V. P.) Asymptotic and geometric quantization. (Russian) **86m:58064**
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- Komatsu, Takashi Markov processes associated with pseudodifferential operators. **86e:60061**
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- Lascar, B. (with Lascar, Richard) Un lien explicite entre les opérateurs pseudo-différentiels et les opérateurs de Toeplitz. (English summary) [An explicit link between pseudodifferential operators in \mathbb{R}^n and Toeplitz operators] **86i:35150**
- Lascar, Richard See Lascar, B., **86i:35150**
- Littlejohn, Robert G. Symplectically invariant WKB wave functions. **86i:81040**
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- Maillard, J.-M. Structure des convoluteurs à gauche de $\mathcal{S}(\mathbb{R}^{2l})$ et des symboles admissibles de la transformation de Weyl. (English summary) [Structure of the left convolution operators of $\mathcal{S}(\mathbb{R}^{2l})$ and of the admissible symbols of the Weyl transformation] **86m:46040**
- Maslov, V. P. Nonstandard characteristics in asymptotic problems. (Russian) **86b:35180**
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- Melrose, R. B. (with Taylor, Michael E.) Near peak scattering and the corrected Kirchhoff approximation for a convex obstacle. **86m:35095**
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- Popivanov, P. R. Microlocal properties of pseudodifferential operators with double involutive characteristics. (Russian) **86e:35006**
- Qi, Min You Generalized Fuchsian partial differential equations. (Chinese. English summary) **86a:35006**
- Rempel, S. (with Schulze, B.-W.) Complex powers for pseudodifferential boundary problems. I. **86b:35207a**
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- Seghier, Abdellatif Inversion de la matrice de Toeplitz en d dimensions: développement asymptotique de la trace de l'inverse à l'ordre d . (English summary) [Inversion of the Toeplitz matrix in d dimensions: asymptotic expansion of the trace of the inverse operator to order d] **86f:47020**
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- Unterberger, André (with Unterberger, Julianne) La série discrète de $SL(2, \mathbb{R})$ et les opérateurs pseudo-différentiels sur une demi-droite. [The discrete series of $SL(2, \mathbb{R})$ and pseudodifferential operators on a half line] **86c:22026**
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- Watanabe, Hiroshi (with Itô, Yûsuke) A construction of the fundamental solution for the relativistic wave equation. I. **86i:58132**
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- Brown, Martin Richard Solutions of the wave equation in curved spacetime: nonexistence of the DeWitt integral in de Sitter spacetime. **86i:81095**
- Friedrich, Helmut On the hyperbolicity of Einstein's and other gauge field equations. **86m:53009**
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- Mitchler, Carl N. The flat Cauchy problem for radially hyperbolic operators from a characteristic manifold of high codimension. **86j:35102**
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- Paracomposition et application aux équations non-linéaires. [Paracomposition and application to nonlinear equations] (See **86j:00010**)
- Gårding, Lars Hyperbolic differential operators. **86f:35109**
- Hamada, Yūzaku (with Takeuchi, Akira) Le domaine d'existence et le prolongement analytique de la solution du problème de Cauchy à données singulières. [Domain of existence and analytic continuation of the solution of the Cauchy problem with singular data] **86f:35007**
- Lascar, B. (with Sjöstrand, Johannes) Équation de Schrödinger et propagation pour des O.D.P. à caractéristiques réelles de multiplicité variable. II. [Schrödinger equation and propagation for pseudodifferential operators with real characteristics of variable multiplicity. II] **86j:35160**
- Laubin, P. Propagation des singularités analytiques pour des opérateurs à caractéristiques involutives de multiplicité variable. (English summary) [Propagation of analytic singularities for operators with involutive characteristics of variable multiplicity] **86a:35005**
- Léonard, Paul Application du critère de Bros-Iagolnitzer-Sjöstrand à l'étude du "wave front set" analytique des solutions élémentaires des opérateurs hyperboliques à coefficients constants. [Application of the Bros-Iagolnitzer-Sjöstrand criterion to the study of the analytic wave front set of elementary solutions of hyperbolic operators with constant coefficients] **86b:35027**
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- (with Ritter, Niles) Interaction of nonlinear progressing waves for semilinear wave equations. **86m:35005**
- Métivier, Guy See Allinac, S., **86f:35010**
- Mitchell, Lucio Propagation of singularities for nonstrictly hyperbolic semilinear systems in one space dimension. **86k:35083**
- Nishitani, Tatsuo On the finite propagation speed of wave front sets for effectively hyperbolic operators. **86b:35117a**
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- Delanoe, Ph. Radially symmetric boundary value problems for real and complex elliptic Monge-Ampère equations. **86m:58145**
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- Alabidi, Ali Réflexion transverse des singularités pour un problème aux limites non linéaire d'ordre 2. (English summary) [Transversal reflection of singularities for a second-order nonlinear boundary value problem] **86m:35032**
- Ambrosetti, Antonio (with Lupo, Daniela) On a class of nonlinear Dirichlet problems with multiple solutions. **86d:35050**
- Bolley, Pierre (with Dauge, Monique; Camus, Jacques) Régularité Gevrey pour le problème de Dirichlet dans des domaines à singularités coniques. [Gevrey regularity for the Dirichlet problem in domains with conical singularities] **86m:35046**
- Camus, Jacques See Bolley, Pierre et al., **86m:35046**
- Dauge, Monique See Bolley, Pierre et al., **86m:35046**
- Forgács, P. Multimonopoles and the Riemann-Hilbert problem. **86j:81088**
- Prolov, P. A. Topological structure of elliptic boundary value problems in n -space. (Russian) **86b:35045**
- Grubb, G. On the spectral theory of pseudodifferential elliptic boundary problems. **86f:58158**
- Guillemin, Victor Toeplitz operators in n dimensions. **86i:58130**
- Höppner, W. Transversal elliptische Randwertprobleme. [Transversally elliptic boundary value problems] **86m:35075**
- Ivrii, V. Ya. Exact classical and quasiclassical asymptotic behavior of eigenvalues for spectral problems on manifolds with boundary. (Russian) **86a:58111**
- Lin, Sung Shan Some uniqueness results for positive problems when a parameter is large. **86k:35048**
- Lupo, Daniela See Ambrosetti, Antonio, **86d:35050**
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- Panayakh, B. P. Some boundary value problems for elliptic equations, and related Lie algebras. (Russian) **86j:35048**
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58H99 None of the above, but in this section

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